SERVICE MANUAL

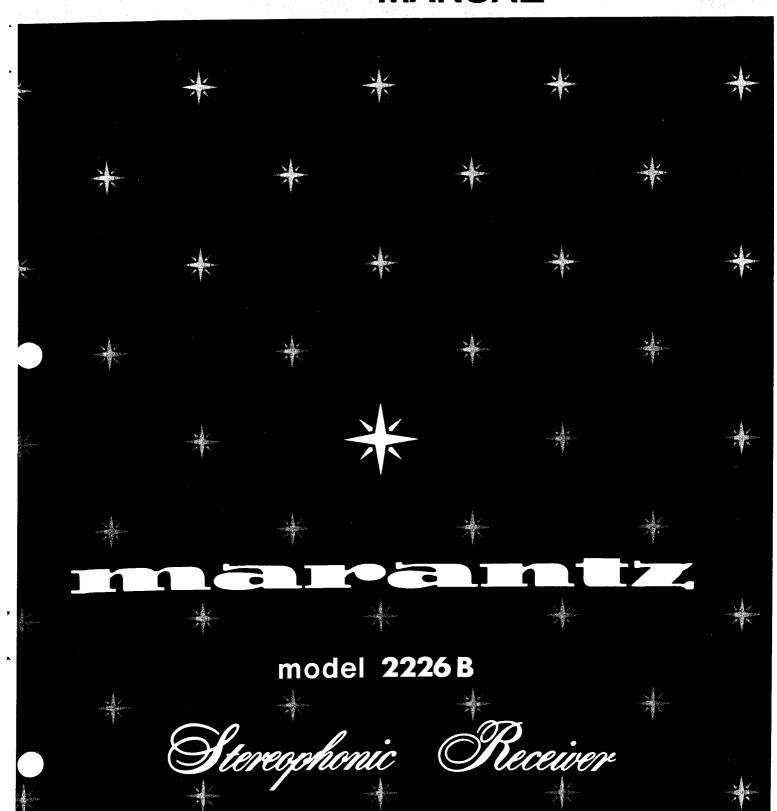


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1. INTRODUCTION

This service manual was prepared for use by Authorized Warranty Stations and contains service information for Marantz Model 2226B Stereophonic Receiver.

Servicing information and voltage data included in this manual are intended for use by the knowledgeable and experienced technician only. All instructions should be read carefully. No attempt should be made to proceed without a good understanding of the operations in the receiver.

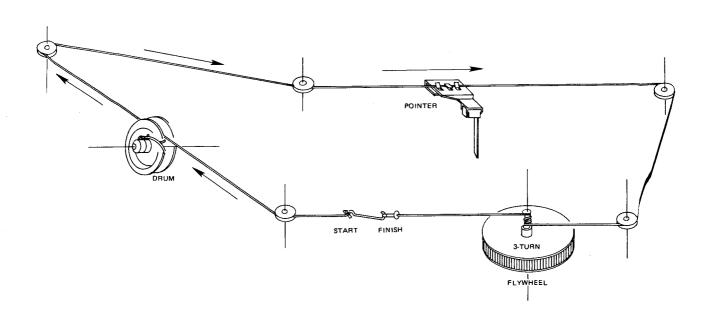
The parts list furnishes information by which replacement parts may be ordered from the Marantz Company. A simple description is included for parts which can usually be obtained through local suppliers.

2. SERVICE NOTES

As can be seen from the circuit diagram, the chassis of Model 2226B consists of the following units. Each unit mounted on a printed circuit board is described within the square enclosed by a bold dotted line on the circuit diagram.

1.	FM Front End	mounted on P.W.B. P100
2.	Tuner	mounted on P.W.B. P200
3.	Phono Equalizer Amp & Selector	mounted on P.W.B. P400
4.	Main Amp. & Power Supply	mounted on P.W.B. P700
5.	Pre, Tone Amp. & Switch Ass'y	mounted on P.W.B. PE01
6.	Dial Lamp	mounted on P.W.B. PZ01

Figure 1. Dial Stringing





3. TEST EQUIPMENT REQUIRED FOR SERVICING

This table lists the test equipment required for servicing the Model 2226B Receiver.

Item	Manufacturer and Model No.	Use	
AM Signal Generator		Signal source for AM alignment	
Test Loop		Use with AM Signal Generator	
FM Signal Generator MPX Signal Generator	Sound Technology Model 1000A	Signal source for FM alignment Stereo separation alignment and trouble shooting	
Distortion Analyzer Audio Oscillator AC VTVM	Sound Technology Model 1700A	Distortion measurements Sinewave and squarewave signal source Voltage measurements (AC)	
Oscilloscope	Tektronix Model T932 Philips Model 3232	Waveform analysis and trouble shooting and ASO alignment	
Frequency Counter	Fluke Model 1900A	MPX Oscillator adjustment (VCO)	
Circuit Tester		Trouble shooting	
DC VTVM	Fluke Model 8000 "Digital" Simpson Model 313, Triplet Model 801	Voltage measurements (DC)	
AC Wattmeter	Simpson Model 1379	Monitors primary power to amplifier	
AC Ammeter	Commercial Grade (1~10A)	Monitors amplifier output under short circui condition	
Line Voltmeter	Simpson Model 1359	Monitors potential of primary power to amplifier	
Variable Autotransformer	Superior Electronic Co., Powerstat Model 116B-10A	Adjusts level of primary power to amplifier	
Shorting Plug	Use phono plug with 600-ohm across center pin and shell	Shorts amplifier input to eliminate noise pickup	
Output Load (8 ohms, ±0.5%, 100W)	Commercial Grade	Provides 8-ohm load for amplifier output termination	
Output Load (4 ohms, ±0.5%, 100W)	Commercial Grade	Provides 4-ohm load for amplifier output	

4. AM ALIGNMENT PROCEDURE

4.1 AM IF ALIGNMENT

- Connect a sweep generator to the L153 and an alignment scope to the J233.
- Rotate each core of IF transformers L155 and L156 for the maximum height and flat top symmetrical response.
- 4.2 AM FREQUENCY RANGE AND TRACKING ALIGNMENT
- Set AM signal generator to 515 kHz. Turn the tuning capacitor fully closed (place the tuning pointer at the low end) and adjust the oscillator coil L154 for maximum audio output.

- Set the signal generator to 1650 kHz. Place the tuning pointer in the high frequency end and adjust the oscillator trimmer on the oscillator tuning capacitor for maximum audio output.
- Repeat steps 1 and 2 until no further adjustment is necessary.
- 4 Set the generator to 600 kHz, tune the receiver to the same frequency and adjust a slug core of AM ferriterod antenna L001 for maximum output.
- 5. Set the generator to 1400 kHz and tune the receiver to the same frequency and adjust the trimming capacitor on the antenna tuning capacitor for maximum output.

6. Repeat procedures 4 and 5 until no further adjustment is necessary.

NOTE

During tracking alignment reduce the signal generator output as necessary to avoid AGC action.

5. FM ALIGNMENT PROCEDURE

5.1 FM REQUENCY RANGE AND TRACKING ALIGNMENT

- Connect an FM signal generator to the FM antenna terminals and an oscilloscope and an audio distortion analyzer to the TAPE OUT jacks on the rear panel.
- 2. Set the generator to 87.4 MHz and provide about 3 to 5 μ V. Place the tuning pointer at the low frequency end by rotating the tuning knob and adjust the pitch of oscillator coil L107 to obtain maximum audio output.
- 3. Set the generator to 109 MHz and provide about 3 to 5 μ V. Rotate the tuning knob and place the tuning pointer at the high frequency end and adjust the trimming capacitor C121 for maximum output.
- Repeat steps 2 and 3 until no further adjustment is necessary.
- 5. Set the generator to 90 MHz and tune the receiver to the same frequency. Decrease signal generator output until the audio output level decreases with the decreasing generator output. Adjust the pitch of antenna coil L102 and RF coil L104 for maximum output.
- Set the generator to 106 MHz and tune the receiver to the same frequency. Decrease the signal generator output until the audio output level decreases with the decreasing generator output. Adjust the trimming capacitors of antenna and RF tuning circuits for maximum output.
- Repeat steps 5 and 6 until no further adjustment is necessary.
- 8. Adjust the primary core (low core) of discriminator transformer L202 so that the center tuning meter pointer indicates its center at no signal applied. Set the FM signal generator to 98 MHz and increase its output level | kµV and tune the receiver to the same frequency so that the center tuning meter pointer indicates its center. Adjust the secondary core (upper core) of L202 for minimum distortion.

5.2 STEREO SEPARATION ALIGNMENT

- 1. Set the FM signal generator to provide 1 k μ V at 98 MHz. Tune the receiver to the same frequency so that the center tuning meter pointer indicates its center. Then turn off the modulation of the generator, connect a frequency couter to test point J229 and adjust R301 so that the frequency counter may precisely read 76 kHz.
- Modulate the generator with stereo composite signal consisting of only L or R channel (of course a pilot signal must be included).
- 3. Adjust the trimming resistor R317 for maximum and same separation in both channels.

5.3 MUTING THRESHOLD ADJUSTMENT

1. Set the FM signal generator output to provide $12.5\,\mu\text{V}$ (IHF) at 98 MHz and tune receiver to the same frequency. Adjust the trimming resistor R212 for the threshold level of 12.5 μV . (During this adjustment turn the FM MUTING pushswitch "on")

5.4 FM DOLBY LEVEL ADJUSTMENT

- 1. Set the FM signal generator to provide a 400 Hz, 50% modulated 98 MHz mono signal, at 1 k μ V output. Precisely tune the receiver to 98 MHz.
- 2. Depress the FM 25 µS pushswitch, and adjust R215 until the outputs of both channels are 580 mV.

6. POWER AMPLIFIER ADJUSTMENT

Connect a VTVM between R757(+) and R759(-) and adjust the trimming resistor R739 until the VTVM reads 18.8 mV DC. And next, connect a VTVM between J735 and J732 (GROUND) and adjust the trimming resistor R737 until the VTVM reads 0 mV DC. Do over again. For the other channel, connect the VTVM between R758(+) and R760(-) and adjust the R740 for the same reading, and connect the VTVM between J736 and J732 and adjust the R738 for the same reading. Do over again. When adjusting a DC offset voltage, the switch of the SPEAKER SYSTEM 1 must be turned on.

7. POWER SUPPLY ADJUSTMENT

Connect a VTVM between J708(+) and J715(-) and adjust R783 until the VTVM reads 35.0 V under no signal condition.

EUROPEAN MODEL ONLY

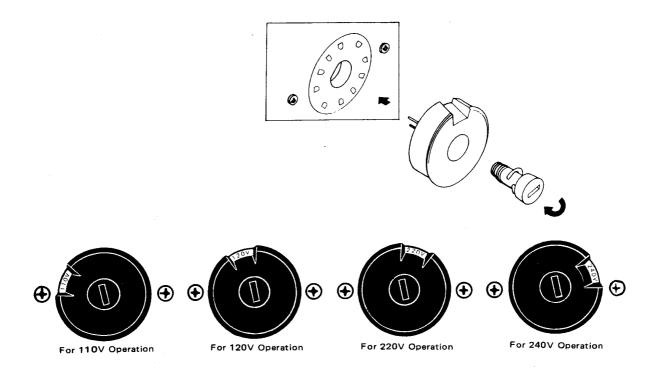
8. VOLTAGE CONVERSION

The European version of the Model 2226B is equipped with a universal power transformer that may be adjusted to operate at 110V, 120V, 220V, or 240V AC at 50 to 60 Hz. To convert the unit to a different power source voltage, reposition conversion plug as shown in Figure 2.

CAUTION

DISCONNECT POWER SUPPLY CORD FROM ACOUTLET BEFORE CONVERTING VOLTAGE.

Figure 2. Voltage Conversion Chart



9. FTZ REGULATION

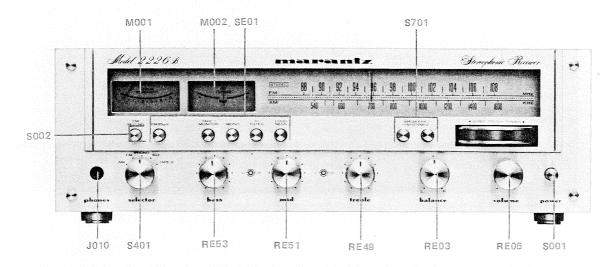
Instruction for the use in the rage other than specified in FTZ codes

Achtung für die Leute, die in dem Gebiet wohnen, wo die FTZ-Bestimmungen vorherrschend sind.

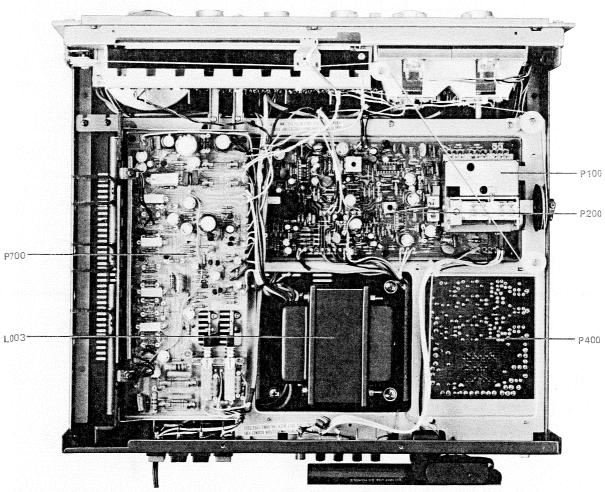
Sollte das Gerät auch für Frequenzen auszerhalb des in den FTZ-Bestimmungen angegebenen Bereiches empfangebereit sein, bitten wir, den Bereich durch Nachstellen des Kernes in der Oszillatorspule (in der Abbi dung mit "FTZ" gekennzeichnet) so zu korrigieren, dass er den Bestimmungen entspricht.

10. MAJOR COMPONENT LOCATIONS

10.1 Front Panel Adjustment and Component Locations

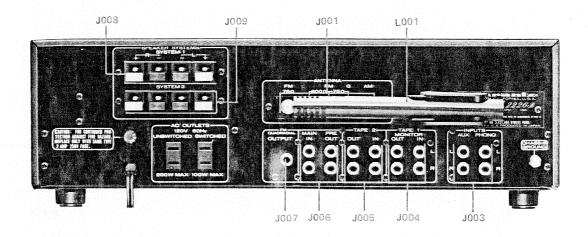


10.2 Main Chassis Component Locations (Top View)

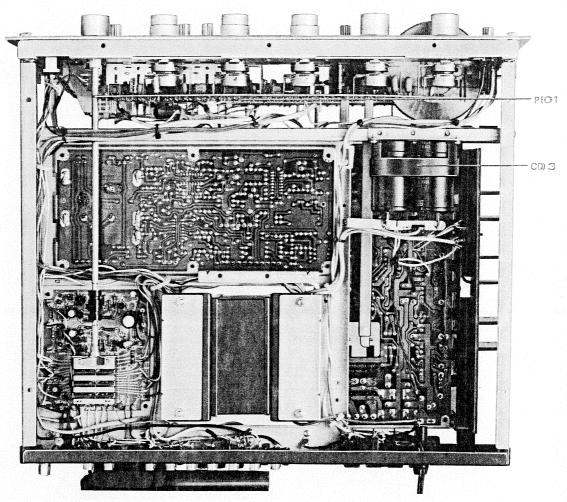




10.3 Rear Panel Adjustment and Component Locations



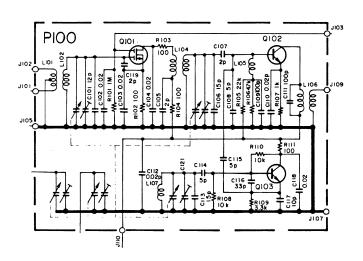
10.4 Main Chassis Component Locations (Bottom View)

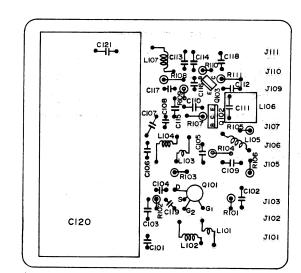


11. DIAGRAM AND COMPONENT LOCATIONS

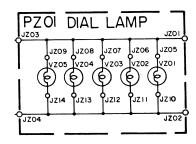
marana.

11.1 FM Front End Assembly (P100) Schematic Diagram and Component Locations



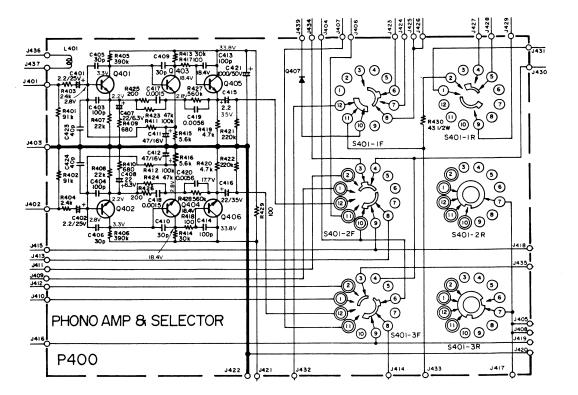


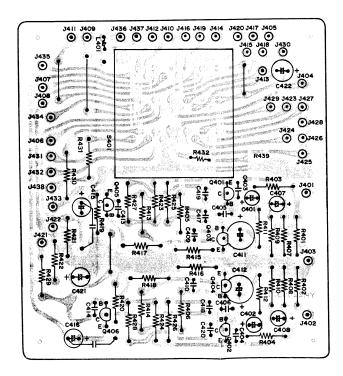
11.2 Dial Lamp Assembly (PZ01) Schematic Diagram and Component Locations



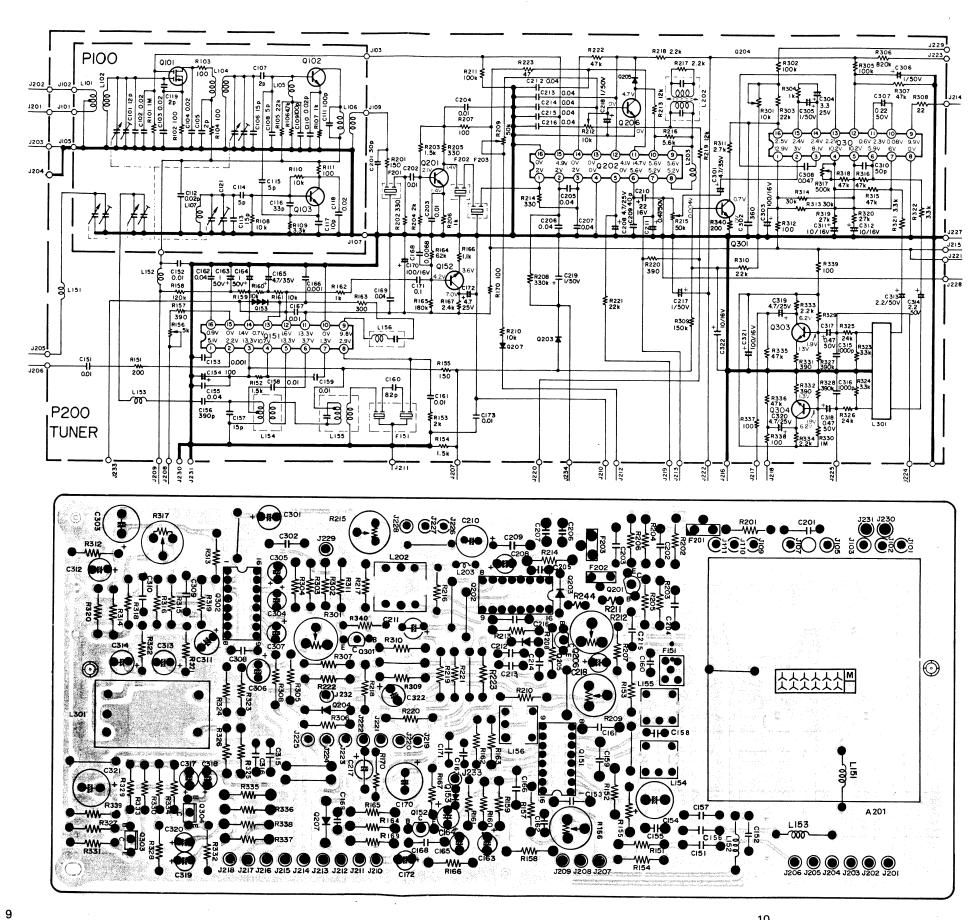
JZ01	- MZ01	MZ02	MZ03	MZ04	_м zо5 ¬ ₃
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11.3 Phono Amp. Assembly (P400) Schematic Diagram and Component Locations

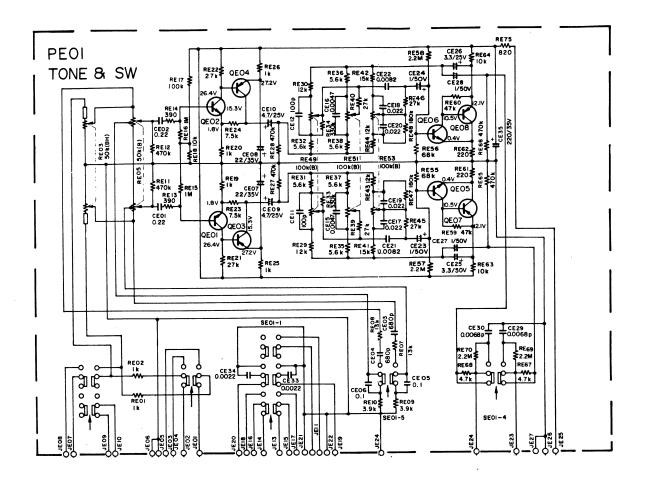


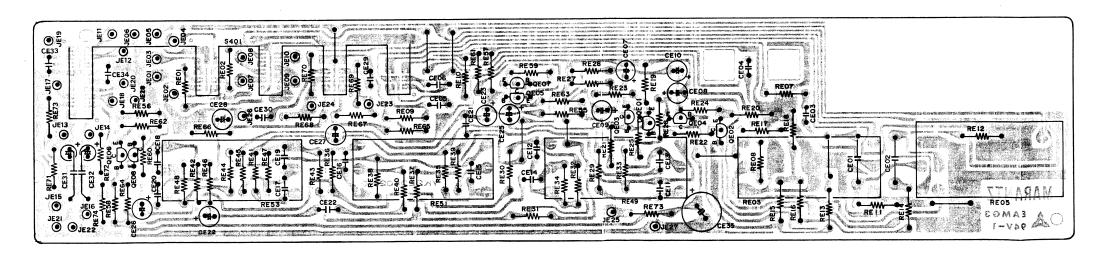


11.4 Tuner Assembly (P200) Schematic Diagram and Component Locations

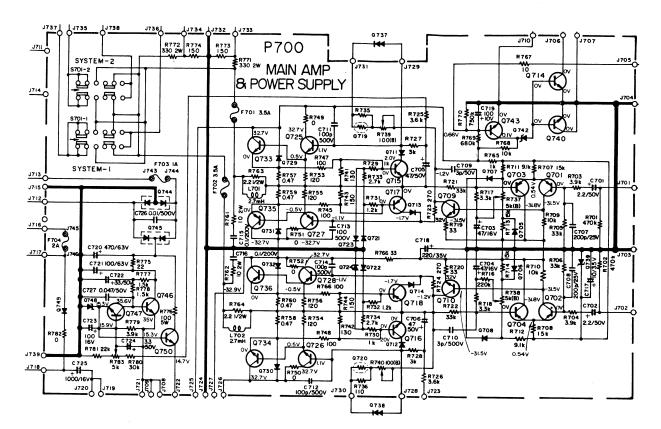


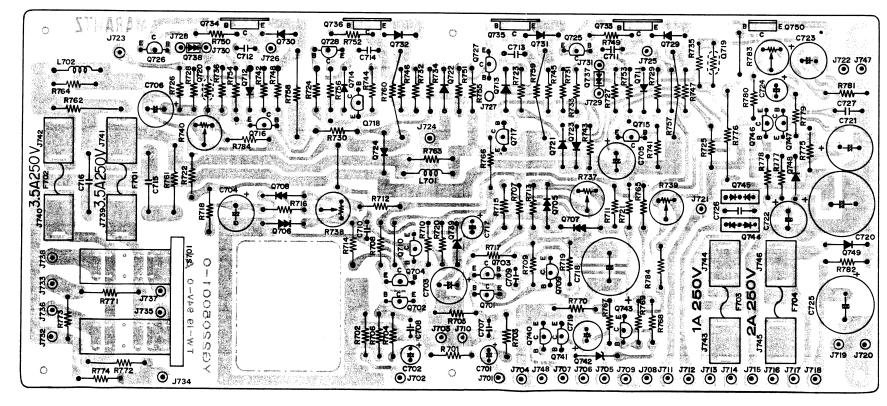
11.5 Tone Switch Assembly (PE01) Schematic Diagram and Component Locations



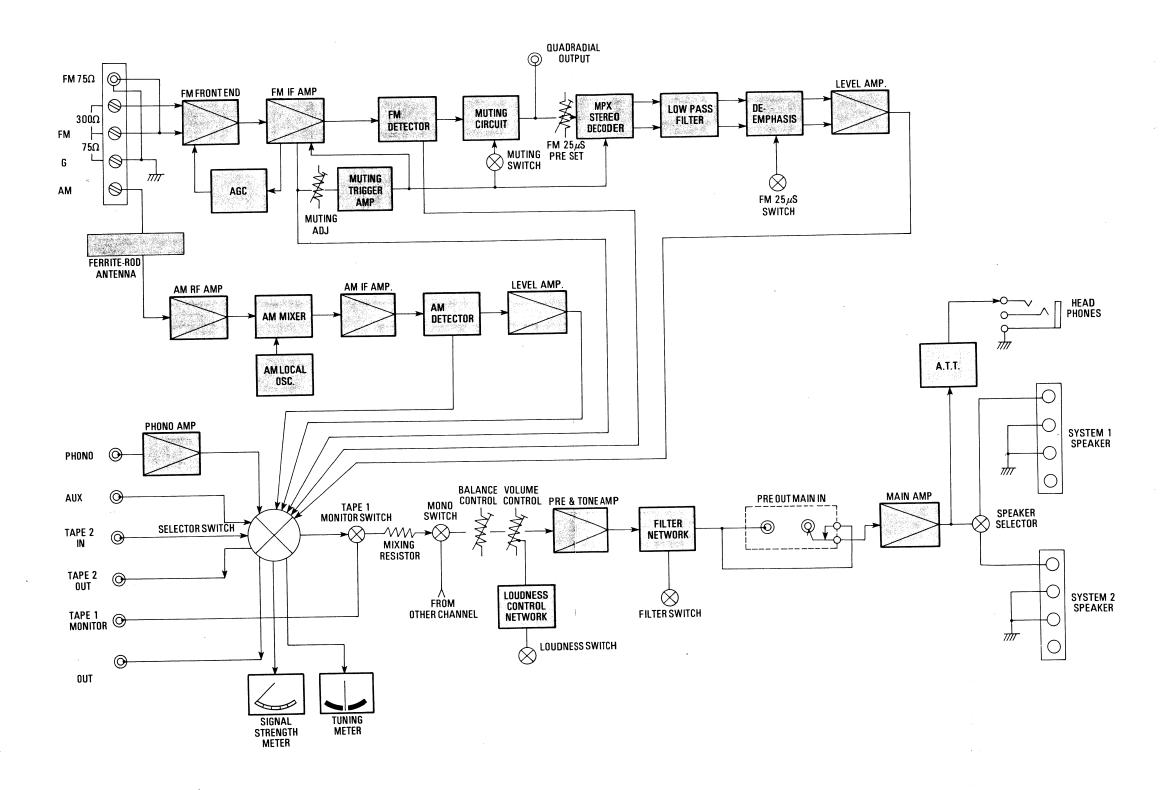


11.6 Main Amp. & Power Supply Assembly (P700) Schematic Diagram and Component Locations



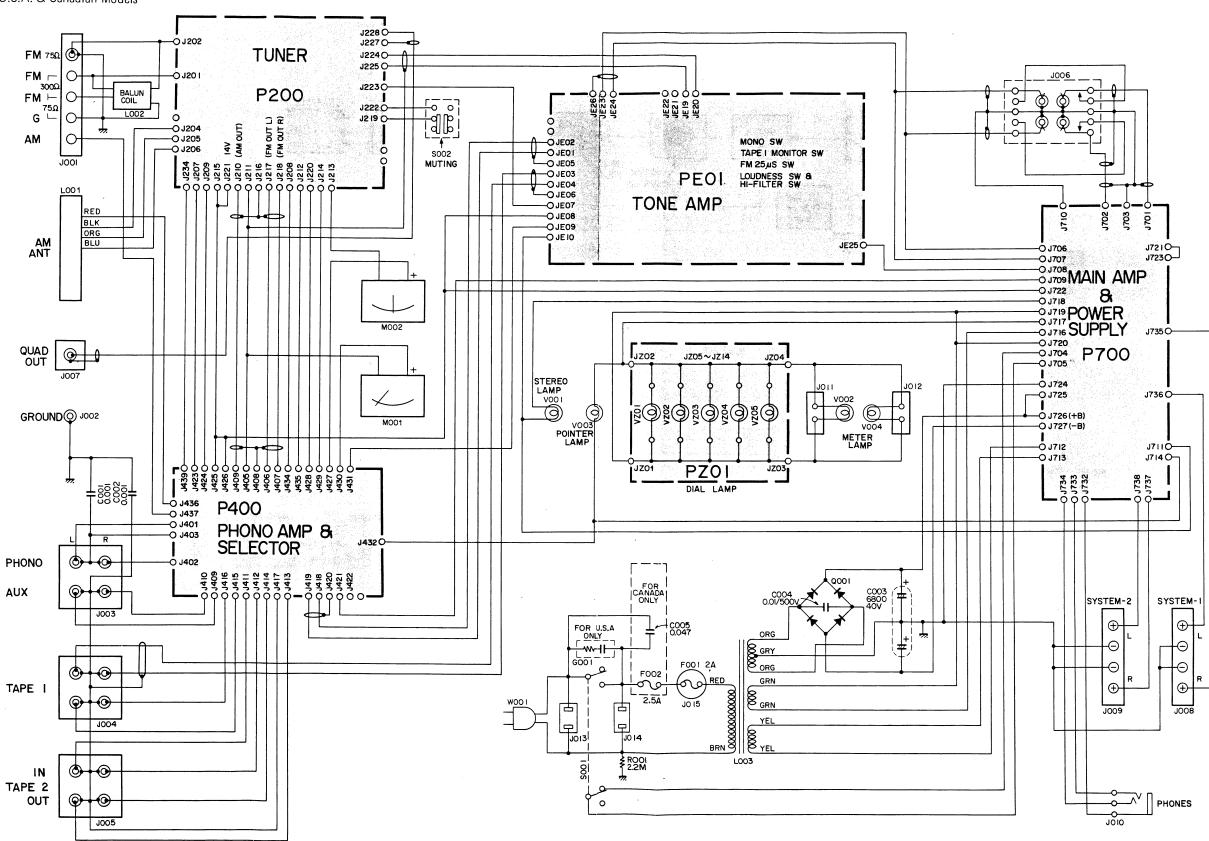


12. BLOCK DIAGRAM

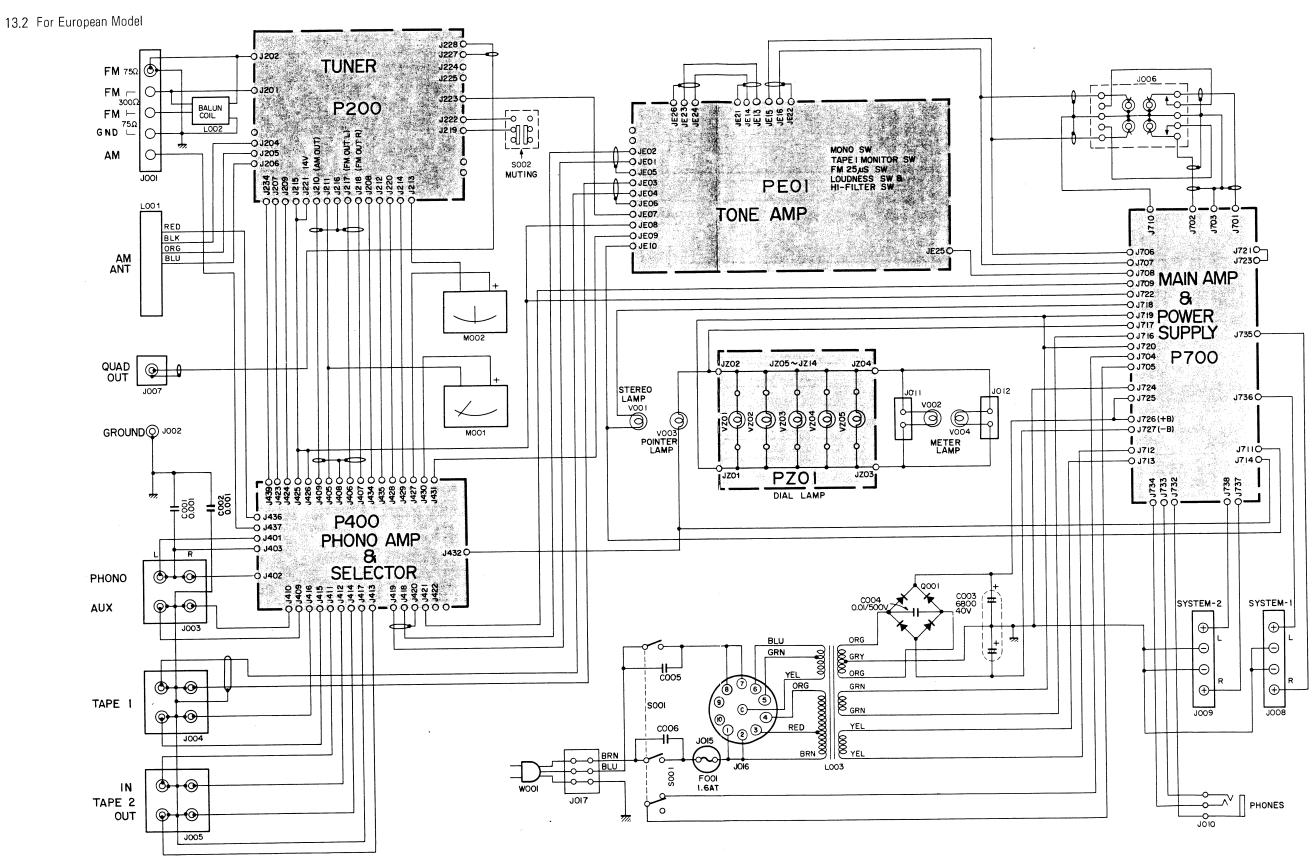


13. CONNECTION DIAGRAMS

13.1 For U.S.A. & Canadian Models



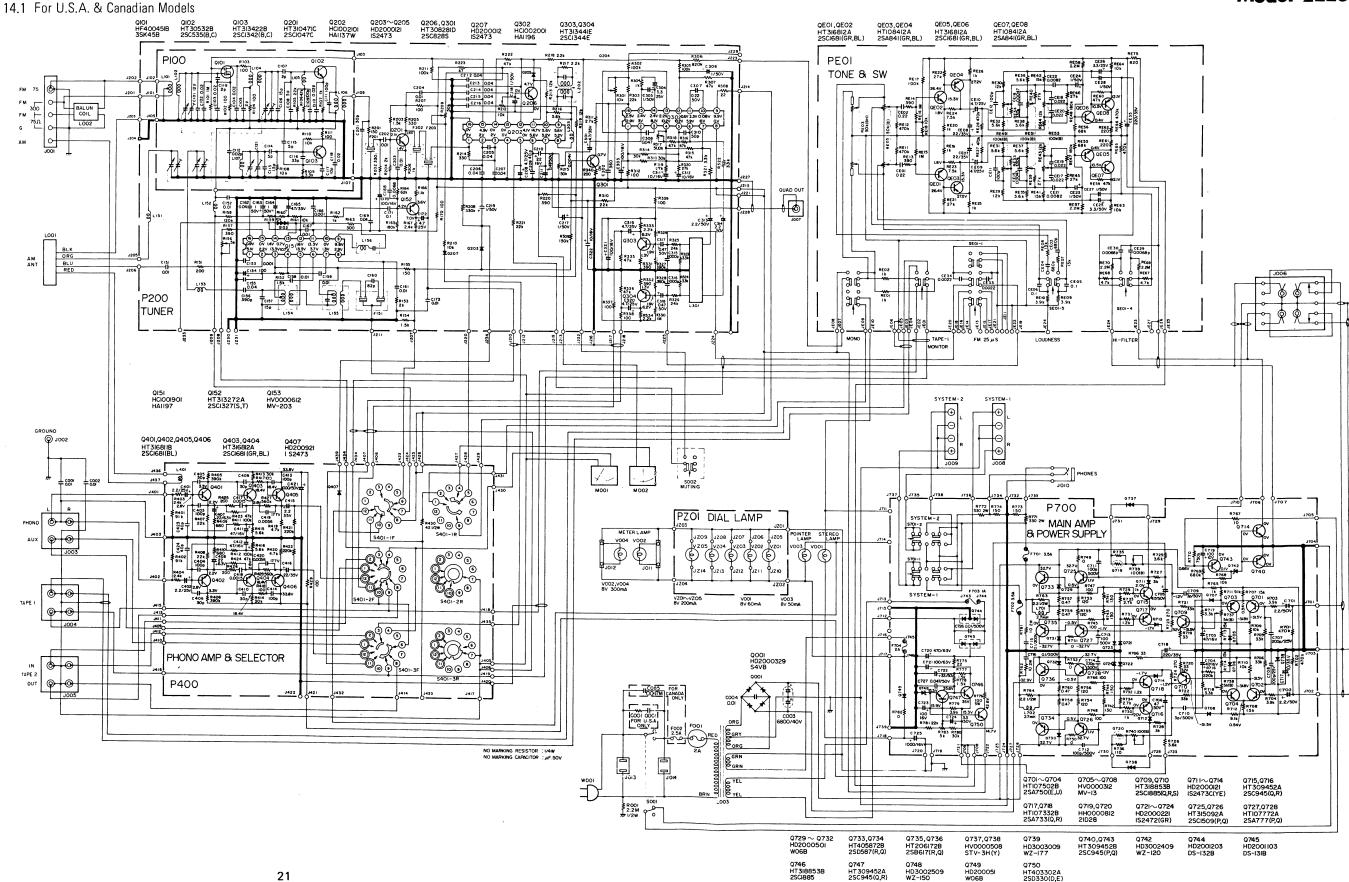




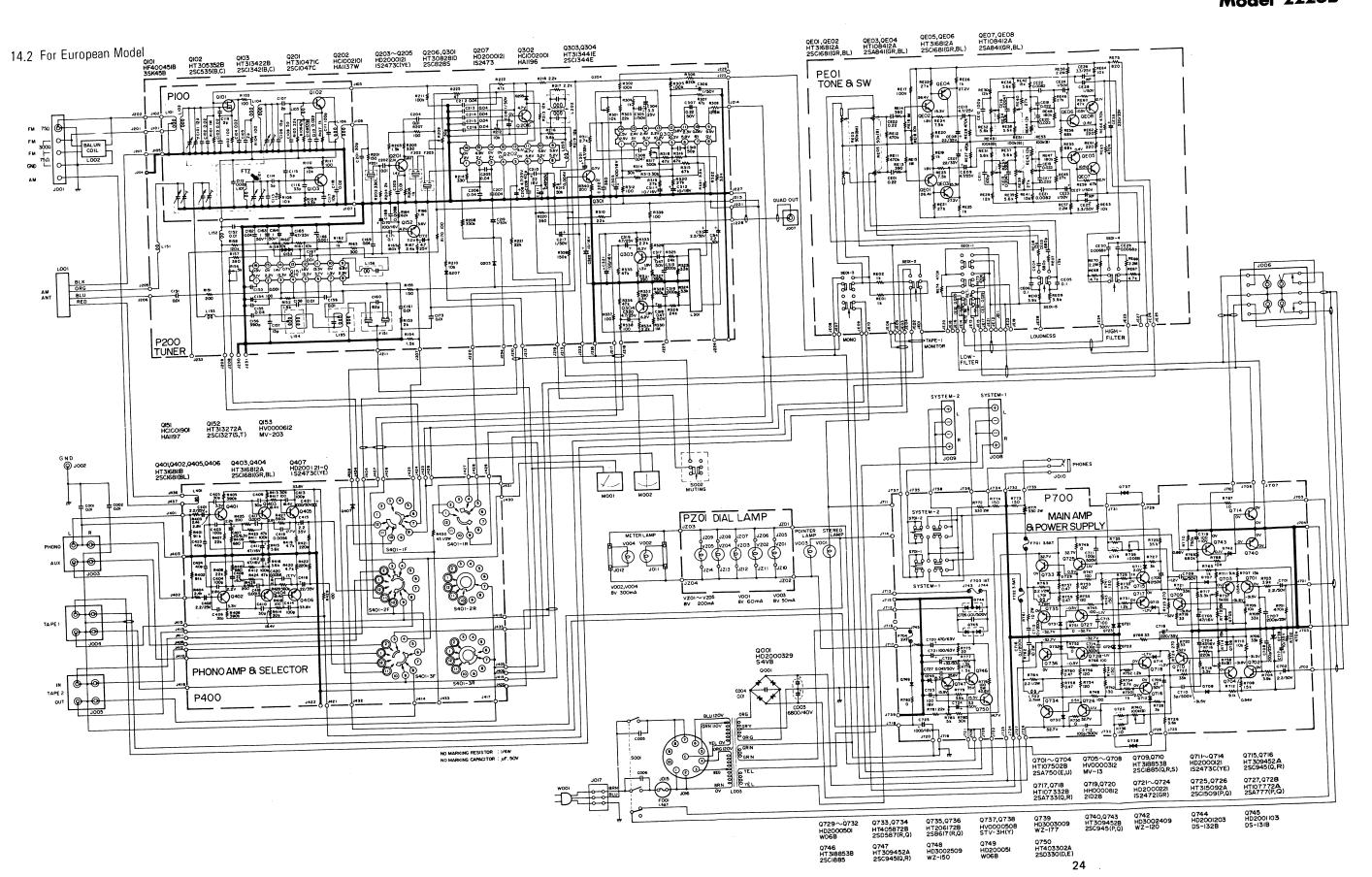
Model 2226B

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14. SCHEMATIC DIAGRAMS

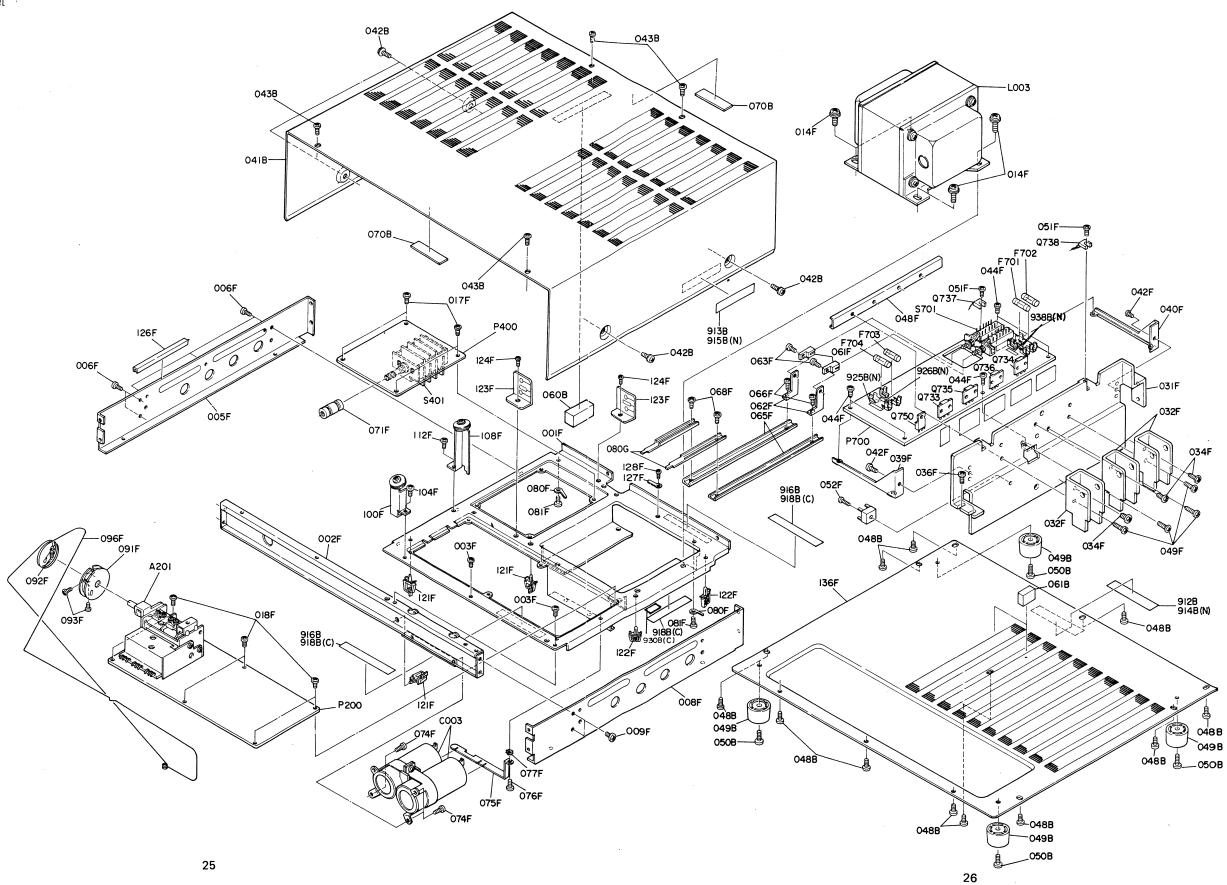


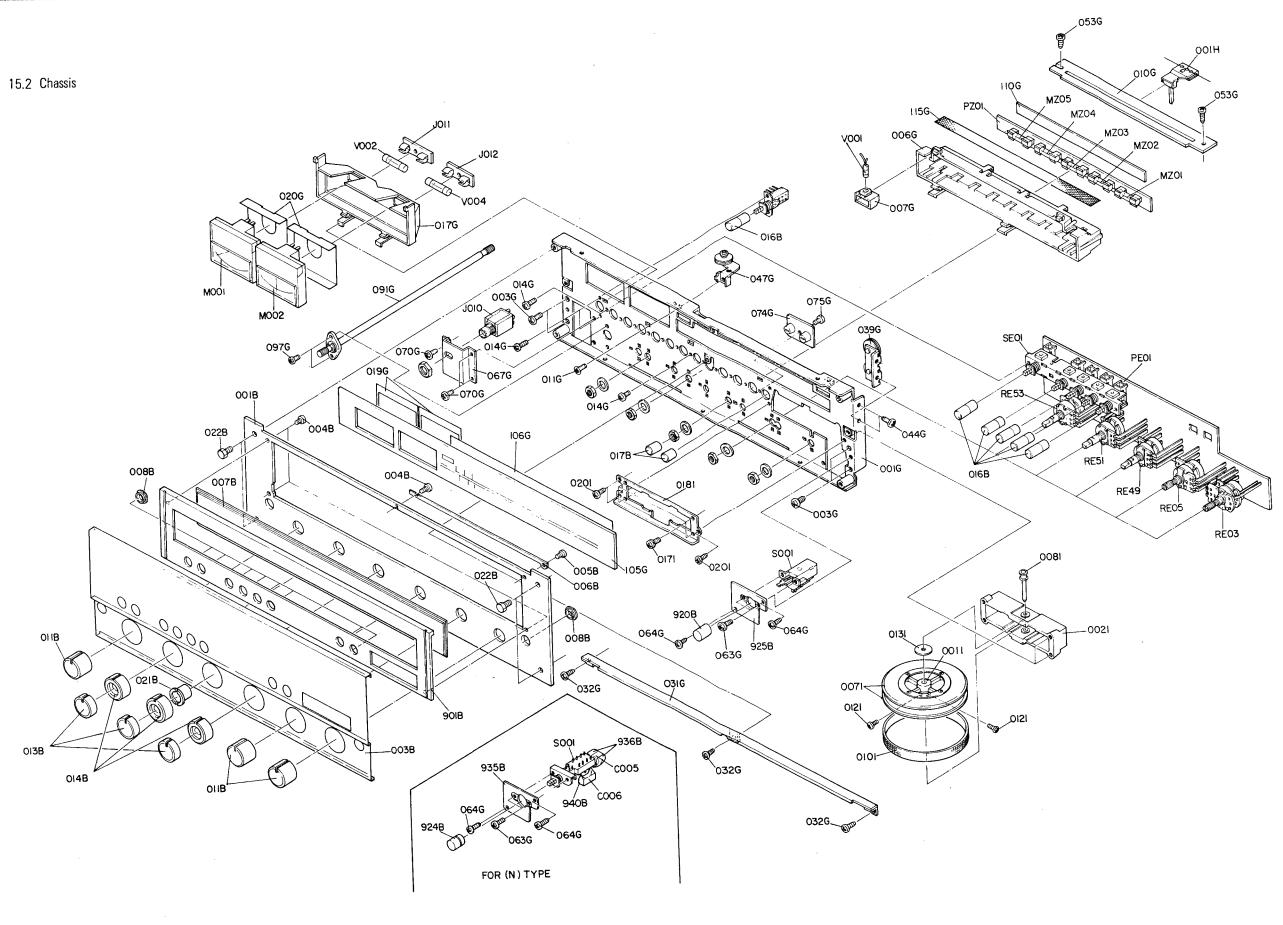
Model 2226B



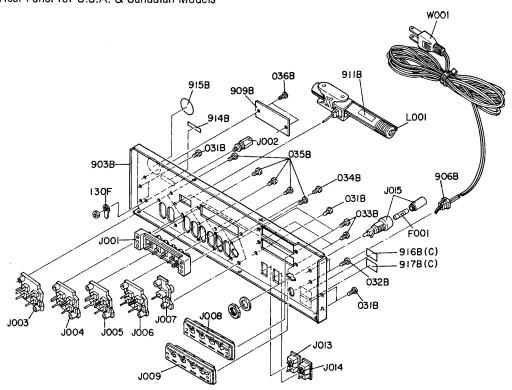
15. EXPLODED MECHANICAL DIAGRAMS

15.1 Cabinet



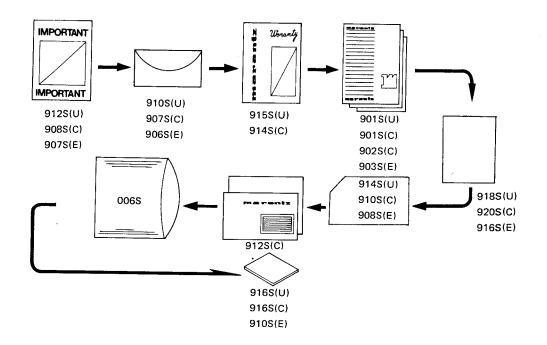


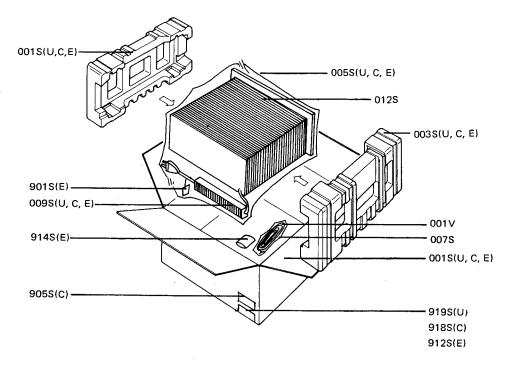
15.3 Rear Panel for U.S.A. & Canadian Models



15.4 Rear Panel for European Model 903B 900B

16. PACKING MATERIAL EXPLODED VIEW





- (U) for U.S.A.
- (C) for Canada
- (E) for Europe

17. PARTS LIST

• (U) for U.S.A. • (C) for Canada

_	INI	for	Furone	

REF.	٥	ΉY	,	DART NO	DESCRIPTION			
DESIG.		Ċ	E	PART NO.	DESCRIPTION			
А	1	1		2205063400	Front Panel Assembly			
A1			1	2205063410	Front Panel Assembly			
001B 003B	1	1	1	2205063012 2205053012	Escutcheon Cover			
003B	5	5	5	51100305A9	B.H.M. Screw, B3 x 5			
005B	2	2	2	51100306S9	B.H.M. Screw B3 x 6			
006B 007B	1	1	1	2213160170 2211158110	Bracket Window			
007B	9	9	9	2978259010	Bushing			
901B	1	1		2205063022	Escutcheon Escutcheon			
901B			1	2205063120	Escutcheon			
В	1	1	1	2219273400	Flywheel Assembly			
0011	1	1	1	2219273010	Flywheel			
0071	2	2	2	2219063030 2219353010	Escutcheon Ring			
0101	1	1	1	51820206B0	P.H.M. Screw, P2 x 6			
					Daving Assessables			
091F	1	1	1	2205159400 2204159010	Drum Assembly Drum			
091F	1	1	1	2205115020	Spring			
093F	2	2	2	51064019A9	P.H.M. Screw			
1								
1								
1								
1				•				
PE08	2	2	2	2933118020	Spacer			
PE11 PE12	1	1	1	75060751P0 75061001P0	Jumper Jumper			
PE13	6	6	6	75061251P0	Jumper			
P208	12	1 -	- 1	2933118020	Spacer			
P211	1.	12			Jumper			
P408	4	4	4	2933118020 75061001P0	Spacer Jumper			
P411 P412	1 2	2	2	75061001F0	Jumper			
P413	1	1	1	75061501P0	Jumper			
D707	2.4	34	34	3444118050	Spacer			
P707	34 18	18			Spacer			
P711	4	4	4	75061251P0	Jumper			
R308	1	1	1	75061251P0	Jumper			
001F	1	1	1	2205105012	Chassis			
001G	1	1	1	2211160043	Bracket			
001H	1	1	1		Pointer			
0018	1	1	1	2205801010	Packing Case			
001V 002F	1	1	1		Ext. Antenna, FM Stay			
0021	1	1	1		Retainer			
003F	2	2	2	51280306B0	B.H. Tapped Screw, B3 x 6			
003G	4	4	4	1	B.H. Tapped Screw, B4 x 6			
0038	2	2	2	2204809012	Cushion			
005F	1	1	1	2205126023	Stay			
0058	1	1	1	9014838380	Polyethylene Bag			
006F	5	5	5	51280306B0	B.H. Tapped Screw, B3 x 6 Reflector			
006G 006S	1	1	1	2211274102 9013025010	Polyethylene Bag			
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REF.		Σ'T`		PART NO.	DESCRIPTION
DESIG.	U	С	E	PART NO.	DESCRIFTION
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007G	1	1	1	2211274302	Reflector
007S	1	1	1	9013025010	Polyethylene Bag
008F	1	1	1	2205126033	Stay
0081	1	1	1	i	Shaft
009F 009S	2	2	1	51280306B0 2864804010	B.H. Tapped Screw, B3 x 6 Sleeve
010G	1	1	li	2205051013	Guide
011B	3	3	3		Knob
011G	2	2	2	51042608A0	F.H.M. Screw, F2.6 x 8
0128	1	1	1	2918107130	Sheet
013B	3	3	3	2205154010	Knob
0131	1	1	1	59031405G9	Washer
014B	3	3	3	l .	Knob
014F	4	4	4	51490514A9	L. Washer Screw, L5 x 14
014G	4	4	4		B.H.M. Screw, B3x 6
016B	6	6	6		Knob
017B	2	2	2	2963154022	Knob
017F 017G	1	1	1	51280308U0 2211274203	B.H. Tapped Screw, B3 x 8 Reflector
0171	4	4	4	51470306A9	L. Washer Screw, L3 x 6
	1				·
018F	6	6	6		B.H. Tapped Screw, B3 x 8
0181	1	1	1		Bracket
019G 020G	2	2	2	1	Cover Sheet
0200	3	3	3	2991107020 51280306B0	B.H. Tapped Screw, B3 x 6
021B	1	1	1		Collar
022B	4	4	4		H. Head Bolt
031B	6	6	6	51280308U0	B.H. Tapped Screw, B3 x 8
031F	1	1	1	2205267012	Heatsink
031G	1	1	1	2205269013	Protector
032B	2	2	2	51280308U0	B.H. Tapped Screw, B3 x 8
032F	3	3	3		Heatsink
032G	3	3	3	51280306B0	B.H. Tapped Screw, B3 x 6
033B	4	4	4	51280308U0	B.H. Tapped Screw, B3 x 8
034B	2	2	2		B.H. Tapped Screw, B3 x 8
034F 035B	3	3 10	3	51280310U0 51280308U0	B.H. Tapped Screw, B3 x 10 B.H. Tapped Screw, B3 x 8
036B	2	2	2	51280306B0	•
036F	2	2	2	51280308B0	
039F	1	1	1	2205160040	Bracket
0000		_		000500555	Bulley
039G 040F	1	1	1	2205262512 2205160050	Pulley Bracket
040F	1	1	1	2205160050	Lid
041B	4	4	4	51480406S9	F. Washer Screw, F4 × 6
042F	2	2	2	51280308U0	B.H. Tapped Screw, B3 x 8
043B	4	4	4	51280306U0	B.H. Tapped Screw, B3 x 6
044F	5	5	5	51280308U0	B.H. Tapped Screw, B3 x 8
044G	2	2	2	51280306B0	B.H. Tapped Screw, B3 x 6
047B 047G	1	1	1	2205257030 2205262502	Lid Pulley
54/5	•	'	'	2200202002	
048B	11	11	11	51280410U0	B.H. Tapped Screw, B4 x 1)
048F	1	1	1	2205160062	Bracket
049B	4	4	4	2932057010	Leg
049F 050B	4	4	4	51280316U0	B.H. Tapped Screw, B3 x 16 P. Tapped Screw, P4 x 10
050B	2	2	2	51570410S0 51280310U0	B.H. Tapped Screw, B3 x 1)
052F	1	1	1	51280316U0	B.H. Tapped Screw, B3 x 16
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- (U) for U.S.A.(C) for Canada(N) for Europe

REF. DESIG.	Q'TY U C E			PART NO.	DESCRIPTION
DESIG.	U	С	E		
053G 061F 062F	1 2 2	1 2 2	1 2 2	5128030680 2891271013 2205002012	B.H. Tapped Screw, B3 x 6 Holder Arm
063F	2	2	2	51280306B0 51100306A9	B.H. Tapped Screw, B3 x 6 B.H.M. Screw, B3 x 6
063G 064G	2	2	2	51280306B0	B.H. Tapped Screw, B3 x 6
065F 066F	2	2	2	2207160010 51300306B0	P.H. Tapped Screw, P3 x 6
067G 068F	1 2	1 2	1 2	2205160010 51300306B0	P.H. Tapped Screw, P3 x 6
070G	3	3	3	51280306B0	B.H. Tapped Screw, B3 x 6
071F 074F	1	1 4	1		Joint B.H. Tapped Screw, B3 x 6
074G 075F	1	1	1	2213106012 2205160110	Sustainer Bracket
075G 076F	1	1	1	51280306B0 51280306B0	B.H. Tapped Screw, B3 x 6 B.H. Tapped Screw, B3 x 6
077F 080F	1	1 2	1 2	54050300R0 62030049W0	T.L. Washer OR Lug
080G	2	2	2	2205160032	Bracket
081 F 091 G	2	2	1	51280306B0 2205112500	B.H. Tapped Screw, B3 x 6 Shaft
096F 097G	2	2	2	72071605A0 51280308B0	String B.H. Tapped Screw, B3 x 8
100 F 104 F	1	1	1	2205262520 51280306B0	Pulley B.H. Tapped Screw, B3 x 6
105G 106G	1	1	1	2205302010 2213107010	Dial Sheet
108 F 112 F	1	1	1		Pulley B.H. Tapped Screw, B3 x 6
121 F	5	5	5	2886005020	Clamper
122 F 123 F	1	1	1	2886005050 2205120010	Clamper Insulator
124F 127F	1	1	2	51280306B0 62030049W0	
128F 130F	1	1	1	51280306B0 62040029W0	B.H. Tapped Screw, B3 x 6 Lug
132F 135F	1	1	1		Lug Shield
136F	1	1	1		Cover
901S 901S	1	1		2205851010 2205851310	Instructions Instructions
901S 902S		1	1	9560000040 2886851100	Instructions
903B 903B	1	1	1	2205160213 2205160232	Bracket Bracket
903S 905S		2	1	2205851310 9510901020	Instructions Label
906B 906B	1	1	1	1455259030 1455259040	Bushing Bushing
906s			1	2818813010	Envelope
907S 907S		1	1	2818851120 2918813012	Instructions Envelope
908S 908S		1	1	2818851120 9630000180	Instructions Guarantee Card
909B	1	1		2205265010 2205265020	Indicator Indicator
					i

REF. DESIG.		D'T C	Y E	PART NO.	DESCRIPTION
909B 910S 910S 910S 911B	1	1	1	9630000180 2506265060	Indicator Envelope Instructions Guarantee Card Indicator
911B 911B 912B 912B 912S	1	1	2	2578861010 2911861112 2577851020	Label B.H.M. Screw, B3 x 8 Label Label Instructions
912S 912S 913B 913B 913B 914B 914B 914B 914S	1	1 1 1	1 1	9650000050 2506265060 2911861142 2932861010 2578861010 9510911010 9510911020 2577854012	Serial No. Card S. Station Card Indicator Label Label Label Label Label Guarantee Card Silicagel
914S 915B 915B 915S 916B 916B 916S 916S 917B 918B	1 1 2 1	1 1 1 3	1 2	2818854042 2932861010 9511101020 2818854023 2205861010 2911861192 2818851040 2818851140 2911861260 2205861110	Guarantee Card Label Label Guarantee Card Label Label Instructions Instructions Label Label
918S 918S 920S 916S 919B 919S 920B 921B 921B 924B	3	3 1 1	1 1 2 1	(Serial No. Card Flysheet Flysheet Clamper Serial No. Card Knob Insulator B.H.M. Screw, B3 x 14 Knob
9258 9258 9268 9308 9358 9368 9388	1	1	1 1 1 4 2	2205160020 9512601060 9512601030 9510601130 2205160150 2970120030 9512601090	Bracket Label Label Label Bracket Insulator Label
CE02 CE03 CE04 CE05 CE06 CE07 CE08 CE09	1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1	DF17224050 DF17224050 DK16681010 DK16681010 DF16104010 DF16104010 EA10603590 EA10603590 EE47502540 EE47502540	Film Cap., $0.22\mu F \pm 20\%$ 50V Film Cap., $0.22\mu F \pm 20\%$ 50V Ceramic Cap., $680pF \pm 10\%$ 50V Ceramic Cap., $680pF \pm 10\%$ 50V Film Cap., $0.1\mu F \pm 10\%$ 50V Film Cap., $0.1\mu F \pm 10\%$ 50V Electrolytic Cap., $10\mu F \pm 10\%$ 35V Electrolytic Cap., $10\mu F \pm 10\%$ 35V Electrolytic Cap., $4.7\mu F \pm 20\%$ 25V Electrolytic Cap., $4.7\mu F \pm 20\%$ 25V
CE12	1 1 1	1 1 1	1 1 1	DD16101010 DD16101010 DF16222050	Ceramic Cap., 100pF ± 10% 50V Ceramic Cap., 100pF ± 10% 50V Film Cap., 0.0022µF ± 10% 50V

- (U) for U.S.A.(C) for Canada(N) for Europe

											• (N) for Eu	irope
REF.	C	T)	1	24.57. 110	DESCRIPTION	REF.	(ľΥ		PART NO.	DESCRIPTION	
DESIG.	U	С	E	PART NO.	DESCRIPTION	DESIG	U	С	Е	TAIT NO.	DESOM: NON	
									Ιİ			
CE14	1	1	1	DF16222050	Film Cap., 0.0022µF ±10% 50V	RE18		1	1	RT05103140		1/4W
CE15	1	1	1	DF16472050	Film Cap., 0.0047µF ±10% 50V	RE19	,	1	1	RT05102140		14W
CE16	1	1	1	DF16472050	Film Cap., 0.0047µF ±10% 50V	RE20	1	1	1	RT05102140	1	1/4W
CE17	1	1	1	DF16223050	Film Cap., 0.022µF ±10% 50V	RE21	1	í	1	RT05273140		¼W ¼W
CE18	1	1	1	DF16223050	Film Cap., 0.022µF ±10% 50V	RE22		1	1	RT05273140	·	14W
CE19	1	1	1	DF16223050	Film Cap., 0.022μF ±10% 50V Film Cap., 0.022μF ±10% 50V	RE23	1	'	1	RT05752140 RT05822140	1	14W
CE20	1	1	1	DF16223050 DF16822050	Film Cap., $0.022\mu\text{F} \pm 10\%$ 50V Film Cap., $0.0082\mu\text{F} \pm 10\%$ 50V	RE24	1	1	'	RT05752140		1/4W
CE21	1	1	1	DF16822050	Film Cap., 0.0082µF ±10% 50V	RE24	1.	'	1	RT05822140	,	%W
CE22 CE23	1	1	1	EE10505010	Electrolytic Cap., 1µF ±20% 50V	RE25	1	1	1	RT05102140	1	1/4W
0120	١.	١.	•	22,00000.0								
CE24	1	1	1	EE10505010	Electrolytic Cap., 1µF ±20% 50V	RE26	1	1	1	RT05102140	Resistor, 1kΩ ±5% 3	14W
CE25	1	1	1	EE33505010	Electrolytic Cap., 3.3µF ±20% 50V	RE27	1	1	1	RT05474140	Resistor, 470k Ω ±5% !	14W
CE26	1	1	1	EE33505010	Electrolytic Cap., 3.3µF ±20% 50V	RE28		1	1	RT05474140		14W
CE27	1	1		EQ10505010	Electrolytic Cap., 1μF ±30% 50V	RE29		1	1	RT05123140	,	14W
CE27	i	1	1	EQ10603510	Electrolytic Cap., 10µF ±30% 35V	RE30	1	1	1	RT05123140		14W
CE28	1	1	١.	EQ10505010	Electrolytic Cap., 1µF ±30% 50V	RE31		1	1	RT05562140		1/4W
CE28	١.		1	EQ10603510	Electrolytic Cap., $10\mu F \pm 30\%$ 35V	RE32		1	1	RT05562140		1/W
CE29	1	1	1	DF16682050	Film Cap., 0.0068µF ±10% 50V	RE33		1	1	RT05334140		¼W ¼W
CE30	1	1	i	DF16682050	Film Cap., 0.0068µF ±10% 50V Electrolytic Cap., 0.22µF ±30% 50V	RE34		1	1	RT05334140 RT05562140		14W
CE31			1	EQ22405010	Electrolytic Cap., 0.22µF ±30% 50V	l ueso	1'	'	'	h105502140	Hesistor, 5.0K12 15%	/4 * *
CE32		ļ	1	EQ22405010	Electrolytic Cap., 0.22µF ±30% 50V	RE36	1	1	1	RT05562140	Resistor, 5.6kΩ ±5% 1	14W
CE32	1	1	'	DF15222050	Film Cap., 0.0022µF ±5% 50V	RE37		1	1	RT05562140		14W
CE34	1	1		DF15222050	Film Cap., 0.0022µF ±5% 50V	RE38		1	1	RT05562140	1	14W
CE35	1	1	1	EA22703590	Electrolytic Cap., 220μF ±50 % 35V	RE39	1	1	1	RT05273140		%W
JE01	1.	'	-			RE40	1	1	1	RT05273140	Resistor, 27kΩ ±5%	14W
	27	27	27	YP10001130	Plug	RE41	1	1	1	RT05153140	Resistor, 15kΩ ±5% 1	14W
, JE27	[·					RE42	1	1	1	RT05153140		14W
JE28			1	YP10001130	Plug, Pin	RE43	1	1	1	RT05123140		14W
JE29	1	1	1	YP10001130	Plug, Pin	RE44		1	1	RT05123140		1/4W
	1					RE45	1	1	1	RT05273140	Resistor, 27k Ω ±5%	14W
1					PE01 TONE BOARD	5540		١.		DT05070440	חייי פייי	1/14/
PE01	1	1	1	YK22050220	P.W. Board	RE46		1	1	RT05273140		1/W
ŀ	1	1	١.	ZZ22050220	P.W. Board Assembly	RE47		1	1	RT05334140 RT05334140	1	14W 14W
		1	1	ZZ22058220	P.W. Board Assembly	RE49		1	1	RD01040150	Resistor, 330k Ω ±5% 3 Variable Resistor, 100k Ω (B) Tre	
0504				UT216012A0	Transistor, 2SC1681 (GR, BL)	RE51		1	1	RD01040150	1	Mid
QE01 QE02		1	1	HT316812A0 HT316812A0		RE53		i	1	RD01040150		Bass
QE03		1	1	HT108412A0	· · · · · · · · · · · · · · · · · · ·	RE55	E	1	1	RT05683140	·	1/4W
QE04		1	1	HT108412A0	l	RE56		1	1	RT05683140	T	14W
QE05		i i	1	HT316812A0		RE57	í	1	1	RT05225140	1	¼W
QE06		1	1	HT316812A0		RE58	1	1	1	RT05225140	Resistor, 2.2MΩ ±5% !	14W
QE07		1	1	HT108412A0							·	
QE08		1	1	HT108412A0	Transistor, 2SA 841 (GR, BL)	RE59	1	1	1	RT05473140	Resistor, 47kΩ ±5% 3	14W
RE01	1	1	1	RT05102140		RE60		1	1			14W
RE02	1	1	1	RT05102140	Resistor, $1k\Omega \pm 5\%$ %W	RE61		1	1	RT05221140	1	¼W
1						RE62		1	1	RT05221140		1/4W
RE03		1		RM05030690		RE63			1	RT05103140	-	1/4W
RE05		1	1	RM05030700		RE64		1	4	RT05103140		%W
RE07		1		RT05133140	Resistor, $13k\Omega \pm 5\%$ ¼W	RE65		1		RT05474140	1	14W
RE08		1	1	RT05133140	Resistor, 13kΩ ±5% ¼W Resistor, 3.9kΩ ±5% ¼W	RE66		1		RT05474140		%W
RE09		1		RT05392140		RE67		1		RT05472140		14W
RE10		1		RT05392140 RT05474140	Resistor, 3.9k Ω ±5% ¼W Resistor, 470k Ω ±5% ¼W	RE68	'	'	'	RT05472140	Resistor, 4.7k Ω ±5% 3	%W
		1	1	RT05474140	Resistor, $470k\Omega \pm 5\%$ %W	RE69	1	1	1	RT05225140	Resistor, 2.2MΩ ±5% 3	%W
RE12		1	1		Resistor, 390Ω ±5% ¼W	RE70		1				14W
RE14					Resistor, $390\Omega \pm 5\%$ %W	RE71	.	.	1	RT05105140	1	¼W
	Ι.	ľ	'		,	RE72			1	RT05105140	1	%W
RE15	1	1	1	RT05105140	Resistor, 1MΩ ±5% ¼W	RE73			1	RT05562140	1	14W
RE16	- 1	1			Resistor, 1MΩ ±5% ¼W	RE74			1	RT05562140	Resistor, 5.6kΩ ±5% 3	¼W
RE17		1	1		Resistor, 100kΩ ±5% ¼W	RE75	1	1	1	RT05821140	Resistor, 820Ω ±5% 3	¼W
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- (U) for U.S.A.(C) for Canada(N) for Europe

REF. QTY				D. D. T. 110	Broom Trans				
			E	PART NO.	DESCRIPTION				
SE01 JZ01	1	1	1	SP06050110	Pushswitch, Dolby, Tape, Mono, etc.				
JZ07 JZ07	7	7	7	YP10001130	Plug				
JZ08	10	10	10	YJ08000170	Jack				
PZO1	1	1	1	YF22130050 ZZ22130050	PZ01 DIAL LAMP BOARD P.W. Board P.W. Board Assembly				
VZ02 VZ03 VZ04 VZ05	1	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	IN10080070 IN10080070 IN10080070 IN10080070 IN10080070 DK18103010 DK18103010 EI68804020 DK18103510 DF17473590	Lamp, 8V 200mA Ceramic Cap., 0.01µF 50V Electrolytic Cap., 6800µF ±50 40V Ceramic Cap., 0.01µF 500V				
J001 J002 J003	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	11111111	D007223510 D007223510 FS10160800 FS10200060 FS20250910 BF10400040 BY04050010 YT01010050 YT02040140 YT02040140					
J005 J006 J007 J008 J009 J010 J011 J012 J013	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	YT02040140 YT02040170 YT02010130 YT03040160 YT03040160 YJ01001080 YJ08000250 YJ08000250 YJ04000560 YJ04000560	Terminal, 4P Tape 2 Terminal, 4P Pre Out & Main In Terminal, 1P Quadrature Out Terminal, Spkr Out System 1 Terminal, Spkr Out System 2 Jack, Headphones Jack, Lamp Holder Jack, AC Outlet Jack, AC Outlet				
J015 J015 J016 J017 L001 L002 L003 L003 M001 M002	1 1 1 1 1 1	1 1 1 1 1	1 1 1 1 1 1	YJ08000120 YJ08000220 BY03110010 YL09030010 LF11200520 LB30075260 TS19608010 TS19608020 IM11055080 IM11055050	Jack, Fuse Holder Jack, Fuse Holder Plug, Voltage Selector Terminal, 3P Ant. Coil, AM Balun Coil Power Transformer Power Transformer DC Meter, Signal Strength DC Meter, Tuning				
Q001 R001 S001 S001 S002 V001	1 1 1 1 1	1 1 1 1	1 1 1	HD20003290 RC10225120 SP02010270 SP04010250 SP02010260 IN10080340	Diode, S4VB Resistor, 2.2MΩ ±10% ½W Pushswitch, Power Pushswitch, Power Pushswitch, FM Muting Lamp, Stereo Indi.				

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REF. DESIG.	REF. Q'TY DESIG. U C E		PART NO.	DESCRIPTION			
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V002	1	1	1	IN10080430	Lamp, 8V 300mA		
W001	1	'	1	IN10080430	Lamp, 8V 300mA		
		1	1	YC01900030	A.C. Power Cord		
W001	1	1	1	YC02400220	A.C. Power Cord		
C101	1	1	1	DD16120020	Ceramic Cap., 12pF ±10%		
C102	1	1	1	DK18203030 DK18203030	Ceramic Cap., 0.02µF		
	ľ	1	1	DD11020010	Ceramic Cap., 0.02µF		
C104	1	1	1				
C105	1	1	1	DD16150040	Ceramic Cap., 0.02µF Ceramic Cap., 15pF ±10%		
0100	Ľ.	'	'	DD10150040	Ceramic Cap., 15pr ±10%		
C107	1	1	1	DD11020010	Ceramic Cap., 2pF		
C108	1	1	1	DD12050010	Ceramic Cap., 5pF		
C109	i	i	1	DD16101010	Ceramic Cap., 100pF ±10%		
C110	i	1	li	DK18203030	Ceramic Cap. 0.02µF		
C111	i	1	1	DD16101010	Ceramic Cap., 100pF ±10%		
C112	1	1	1	DK18203030	Ceramic Cap., 0.02µF		
C113	1	1	1	DD15150020	Ceramic Cap., 15pF ±5%		
C114	1	1	1	DD10050030	Ceramic Cap., 5pF		
C115	1	1	1	DD12050010	Ceramic Cap., 5pF		
C116	1	1	1	DD16330020	Ceramic Cap., 33pF ±10%		
C117	1	1	1	DD12100060	Ceramic Cap., 10pF		
C118	1	1	1	DK18203030	Ceramic Cap., 0.02µF		
C119	1	1	1	DD11020010	Ceramic Cap., 2pF		
C120	1	1	1	CA32400080	Variable Cap.		
C121	1	1	1	CT14200010	Trimming Cap.		
C151	1	1	1	DK17103010	Ceramic Cap., 0.01µF ±20%		
C152	1	1	1	DK17103010	Ceramic Cap., 0.01μ F $\pm 20\%$		
C153	1	1	1	DK17102010			
C154	1	1	1	EA10701690	Electrolytic Cap., 100μF 16V		
C155	1	1	1	DK18403020	Ceramic Cap., 0.04µF		
C156	1	1	1	DE6E201010	Film Con 300nE		
C150	1	1	1	DF65391010 DD16150010	Film Cap., 390pF Ceramic Cap., 15pF ±10%		
C157	1	1	1	DK18103010	Ceramic Cap., 15pF ±10% Ceramic Cap., 0.01µF		
C159	1	i	1	DK17103010	Ceramic Cap., 0.01µF ±20%		
C160	1	1	i	DD16820010	Ceramic Cap., 82pF ±10%		
C161	1	1	li	DK17103010	Ceramic Cap., 0.01µF ±20%		
C162	1	1	1	DK18403020	Ceramic Cap., 0.04µF		
C163	1	1	1	EA10505090	Electrolytic Cap., 1μF 50V		
C164	1	1	1	EA22601690	Electrolytic Cap., 22µF 16V		
C165	1	1	1	EA47503590	Electrolytic Cap., 4.7µF 35V		
					•		
C166	1	1	1	DK17102010	Ceramic Cap., 0.001µF ±20%		
	1	1	1	DK18103010	Ceramic Cap., 0.01µF		
C168	1	1	1	DK16682010	Ceramic Cap., 0.0068μF ±10%		
C169	1	1	1	DK18403020	Ceramic Cap., 0.04μF		
C170	1	1	1	EA10701690	Electrolytic Cap., 100μF 16V		
C171	1	1	1	DF16104010	Film Cap., $0.1\mu F \pm 10\%$		
C172	1	1	1	EE47502510	Electrolytic Cap., 4.7μF 25V		
F151	1	1	1	FF10045160	Ceramic Filter, AM CF SFD455D		
J101	1	1	1	YP10001510	Plug		
J102	1	'	1	YP10001510	Plug		
J103	1	1	1	YP10001510	Plug		
J105	1	1	1	YP10001510	Plug		
J107	1	1	1	YP10001510	Plug		
J109	1	1	1	YP10001510	Plug		
	1	1	1	YP10001510	Plug		
J111	1	1	1	YP10001510	Plug		
	1	1	1	LC12220010	Choke Coil		
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- (U) for U.S.A.(C) for Canada(N) for Europe

REF. Q'TY					PART NO.	DESCRIPTION							
DESIG	. U			E									
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	1	١.	.		LI10239010	↓.F.T.							
L106	1	- 1	- [1	LC13320020	Choke Coil, 3.3µH							
L151	1	- 1	· 1	1	LC13320020	Choke Coil, 3.3µH							
L152	1	- 1	1	1	LC13320020	Choke Coil, 3.3µH							
L153	1	- 1		1	LO10010480	Osc. Coil, AM Osc.							
L154	1	- 1	1	1	LI10015010	I.F.T., AM							
L155	1	- 1	1	1	LI10015010	I.F.T., AM							
L156	1	Ì	1	1	L110015000	1.1 . 1 .,							
	ļ		-	1		P100 FM FRONT END BOARD							
	١.		.		YD29910010	P.W. Board							
P100	1	i i	1	1	AV01202060	FM Front End Assembly							
A201	1		1	1	AV01202000	I W I YORK ENG / GSOMBLY							
0.04	١.	.	.		HF400451B0	F.E.T., 3SK45 (B)							
Q101	- 1 -	- 1	1	1	HT305352B0	Transistor, 2SC535 (B, C)							
0102	- 1		1	1	HT313422B0	Transistor, 2SC1342 (B, C)							
Q103		!	1	1	HC10019010	IC. HA1197							
Q151		!	1	1	HT313272A0	Transistor, 2SC1327 (S, T)							
0152	- i	1	1	- 1	HV00006120	Varistor, MV-203							
Q153		1	1	1	GD05105140	Resistor, $1M\Omega \pm 5\%$ 1/4W							
R101	· 1	1	1	1	GD05105140	Resistor, $100\Omega \pm 5\%$ ¼W							
R102	1	1	1	1	GD05101140	Resistor, $100\Omega \pm 5\%$ ¼W							
R103	- 1	1	1	1	GD05101140	Resistor. $100\Omega \pm 5\%$ %W							
R104	Ŧ .	1	1	1	GD05101140	Hesistor, 10022 2570 7444							
1	_	.		ا ۽	GD05223140	Resistor, 22kΩ ±5% ¼W							
R105	- 1	1	1	1	GD05223140 GD05472140	Resistor, $4.7k\Omega \pm 5\%$ %W							
R106	- 1	1	1	1		Resistor, $1k\Omega \pm 5\%$ ¼W							
R107		1	1	1	GD05102140								
1 R108	- 1	1	1	1	GD05103140	1103/3201,							
1 R109	- 1	1	1	1	GD05332140	1100101017							
R110	- 1	1	1	1	GD05103140	1100101017							
R11		1	1	1	GD05101140	1100101017							
R15		1	1	1	RT05201140	Resistor, $200\Omega \pm 5\%$ 4W Resistor, $1.5k\Omega \pm 5\%$ 4W							
R15	_	1	.1	1	RT05152140	Resistor, $2k\Omega \pm 5\%$ ¼W							
R15	3	1	1	1	RT05202140	nesistor, 2832 1570 7477							
	_				DT05152140	Resistor, 1.5kΩ ±5% ¼W							
R15	- 1	1	1	1	RT05152140 RT05151140	Resistor, $150\Omega \pm 5\%$ %W							
R15	i	1	1	1	RA05020200	Trimming Resistor, $5k\Omega$							
R15		1	1	1	RT05391140	Resistor, $390\Omega \pm 5\%$ %W							
R15		1	1	1	RT05124140	Resistor, $120k\Omega \pm 5\%$ ¼W							
R15	- 1	1	1	1	RT05124140	Resistor, $100k\Omega \pm 5\%$ %W							
R15	- 1	1	1	1	RT05104140	Resistor. $10k\Omega \pm 5\%$ %W							
R16	-	1	1	1	RT05103140	Resistor, $10k\Omega \pm 5\%$ %W							
R16	- 1	1	1	1	RT05102140	Resistor, $1k\Omega \pm 5\%$ %W							
R16		1	1	1	RT05102140	Resistor. $300\Omega \pm 5\%$ %W							
R16	ა	1	1	1	n 100301140	1.555501, 55500 2570 7444							
1 545	ا			1	RT05473140	Resistor, 47kΩ ±5% ¼W							
R16			1	1	RT05104140	Resistor, $100k\Omega \pm 5\%$ ¼W							
R16		1	1	1	RT05152140	Resistor, $1.5k\Omega \pm 5\%$ ¼W							
R16		1	1	1	RT05152140	Resistor, $2.4k\Omega \pm 5\%$ ¼W							
R16	- 1	1	1	1	RT05242140	Resistor, $47k\Omega \pm 5\%$ ¼W							
R16	- 1	1	1	1	RT05101140	Resistor. $100\Omega \pm 5\%$ %W							
R17		1	1	1	DD15300010	Ceramic Cap., 30pF ±5%							
C20		1	1	1	DK17103010	Ceramic Cap., 0.01µF ±20%							
C20		1	1	1	DK17103010	Ceramic Cap., 0.01µF ±20%							
C20		1	1	1	DK17103010	Ceramic Cap., 0.01µF ±20%							
C20	4	1	1	1	DK1/103010	Ceramic Cap., 0.01μ1 ±20/8							
1	_				DK10402020	Ceramic Cap., 0.04µF							
C20		1	1	1	DK18403020	Ceramic Cap., 0.04µF Ceramic Cap., 0.04µF							
C20		1	1	1	DK18403020 DK18403020	Ceramic Cap., 0.04µF							
C20		1	1	1	EA47503590	Electrolytic Cap., 4.7µF 35V							
C20		1	1	1	DD15400040	Ceramic Cap., 40pF ±5%							
C20		1	1	1	EA22601690	Electrolytic Cap., 40pt 15%							
C21	U	1	1	'	EM22001030	Licetionytic oup., Zzp. 10 v							
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0011	4			EA47405010	Electrolytic Cap., 0.47µF 50V
C211	1	1	1		
C212	1	1	1	DK18403010	Ceramic Cap., 0.04µF
C213	1	1	1	DK18403010	Ceramic Cap., 0.04µF
C214	1	1	1	DK18403010	Ceramic Cap., 0.04µF
C215	1	1	1	DK18403010	Ceramic Cap., 0.04μF
C216	1	1	1	DK18403010	Ceramic Cap., 0.04µF
C217	1	1	1	EA10505090	Electrolytic Cap., 1µF 50V
C218	1	1	1	EA10505090	Electrolytic Cap 1µF 50V
F201	i	1	1	FF11070050	Electrolytic Cap., 1µF 50V Ceramic Filter, FM 10.7 MHz
	1	1	1	FF11070050	Ceramic Filter, FM 10.7 MHz
F202	١,	'	•	1111070030	Ceramic Filter, TW 10.7 William
5000		١.,	1	FF11070050	Ceramic Filter, FM 10.7 MHz
F203	1	1	' '	FF11070000	Ceramic Filter, TW 10.7 Win2
J201	L				n.
\ \	29	29	29	YP10001130	Plug
J229		i			
J231	1	1	1	YP10001130	Plug
J232	1	1	1	YP10001130	Plug
J233	1	1	1	YP10001130	Plug, AM Test Point
L202	1	1	1	L114019010	I.F.T., FM
	1	i	1	LC11830010	Choke Coil, 18µH
L203	'		1	LC11030010	Chake Coll, Touri
					P200 TUNER BOARD
					1
P200	1	1	1	YD22042012	P.W. Board
	1	1		ZZ22052012	P.W. Board Assembly
		1	1	ZZ22058012	P.W. Board Assembly
Q201	1	1	1	HT310471C0	Transistor, 2SC1O47 C
0202	1	1	1	HC10021010	IC, HA1137W
	1	1	1	HD20001210	Diode, 1S2473
Q203	1	3	1 -		1
Q204	1	1	1	HD20001210	Diode, 1S2473
Q205	1	1	1	HD20001210	Diode, 1S2473
Q206	1	1	1	HT308281D0	Transistor, 2SC828 S
Q207	1	1	1	HD20001210	Diode, 1S2473
R201	1	1	1	RT05151140	Resistor, 150Ω ±5% ¼W
R202	1	1	1	RT05331140	Resistor, 330Ω ±5% ¼W
	1	1	i	RT05153140	Resistor, $15k\Omega \pm 5\%$ ¼W
R203	١,	' '	'	H 105155140	1384 2070 7444
5004	١,	۱.		DT05202140	Resistor. 2kΩ ±5% ¼W
R204	1	1	1	RT05202140	
R205	1	1	1	RT05331140	Resistor, 330Ω ±5% ¼W
R206	1	1	1	RT05102140	Resistor, 1kΩ ±5% ¼W
R207	1	1	1	RT05101140	Resistor, 100Ω ±5% ¼W
R208	1	1	1	RT05334140	Resistor, 330kΩ ±5% ¼W
R209	1	1	1	RA05030120	Trimming Resistor, 5OkΩ (B)
R210	1	1	1	RT05103140	Resistor, 10kΩ ±5% ¼W
	1	i	1	RT05104140	Resistor, $100k\Omega \pm 5\%$ ¼W
R211	1	1 -			
R212	1	1	1	RA01030250	
R213	1	1	1	RT05123140	Resistor, $12k\Omega \pm 5\% $
R214	1	1	1	RT05331140	Resistor, $330\Omega \pm 5\%$ %W
R215	1	1	1	RA05030120	Trimming Resistor, βOkΩ (B)
R216	1	1	1	RT05562140	Resistor, 5.6kΩ ±5% ¼W
R217	1	1	1	RT05222140	Resistor, 2.2kΩ ±5% ¼W
R217	1	1	1	RT05222140	Resistor, 2.2kΩ ±5% ¼W
		1 .		1	
R219	1	1	1	RT05123140	
R220	1	1	1	RT05391140	Resistor, 390Ω ±5% ¼W
R221	1	1	1	RT05223140	Resistor, 22kΩ ±5% ¼W
R222	1	1	1	RT05473140	Resistor, 47kΩ ±5% ¼W
R223	1	1	1	RT05470140	Resistor, 47Ω ±5% ¼W
				1	
R224	1	1	1	RT05102140	Resistor, 1kΩ ±5% ¼W
C301	i	i	1	EA47503590	Electrolytic Cap., 47µF 35V
			1		Film Cap., 360pF ≥5%
C302	1	1	1	DF65361500	I IIII Cap., 300pr 35%
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C303	1	1	1	EA10701690	Electrolytic Cap., 100µF	16V		R332	1	1	1	RT05391140	Resistor,	390Ω	±5%	¼W
C304	1	1	1	EE33502510	Electrolytic Cap., 3.3µF	25V		R333	1	1	1	RT05222140	Resistor,	$2.2k\Omega$	±5%	½W
C305	1	1	1	EE10505010	Electrolytic Cap., 1μF	50V	ı	R334	1	1	1	RT05222140	Resistor,	$2.2k\Omega$	±5%	14W
C306	1	1	1	EA10505090	1 -	50V	İ	R335	- 1	1	1	RT05473140	Resistor,	$47k\Omega$	±5%	1/4W
C307	1	1	1	EQ22405010	Electrolytic Cap., 0.22µF	50V		R336		1	1	t ·		$47 k\Omega$	±5%	14W
C308	1	1	1	DF17473010				R337			- 1	1		100Ω	±5%	14W
C309	1	1	1	DD15500050 DD15500050	1			R338		1 -	- 1		1	100Ω	±5%	1/4W
C310	1	1	1	EA10601690	Ceramic Cap., 50pF $\pm 5\%$ Electrolytic Cap., 10μ F	16V		R339					·	100Ω	±5%	¼W
C312	1	i	1	EA10601690	Electrolytic Cap., 10µF	16V		R340 C401	1	1 -	- 1			200Ω	±5%	14W
00.12		-					1	0,01	'	'	١.	L V 22302300	Electrolytic Cap.	, 2.2μΓ	I 20%	25V
C313	1	1	1	EA22505090	Electrolytic Cap., 2.2μF	50V		C402	1	1	1	EV22502560	Electrolytic Cap.	. 2.2µF	± 20%	25V
C314	1	1	1	EA22505090	Electrolytic Cap., 2.2μF	50V	1	C403	1	1	1			200pF		50V
C315	1	1		DF15102050	Film Cap., 1000pF ±5%			C404	1	1	1	DD16201010		200pF		50V
C315		١.	1	DF15222050	Film Cap., 2200pF ±5%			C405	1	1	1	DD16151010	Ceramic Cap.,	150pF :		50V
C316	1	1		DF15102050	Film Cap., 1000pF ±5% Film Cap., 2200pF ±5%			C406	1	- 1	- 1	1		150pF :		50V
C316	1.	1	1	DF15222050 EA47405010	Film Cap., 2200pF $\pm 5\%$ Electrolytic Cap., 0.47 μ F	50V	1	C407	1	- 1	- 1	EV22600660	1 '			6.3V
C317 C318	1	1	1	EA47405010	Electrolytic Cap., 0.47µF	50V	1	C408	1	(1		, ,			6.3V
C319	i	1	1	EE47502510	Electrolytic Cap., 4.7µF	25V	ı	C409	1		1	DD16300010		30pF :		50V
C320	1	1	1	EE47502510	Electrolytic Cap., 4.7µF	25V		C410 C411	1	1 '		DD16300010		30pF :		50V
6526	'	١.	•					C411	1	- 1	1			, 4/μr	+50 % -10 %	16V
C321	1	1	1	EA10701690	Electrolytic Cap., 100µF	16V	1	C413	1	- 1	i	I.		, 47μF 100pF :		16V 50V
C322		1	1	EE10601640	Electrolytic Cap., 10µF	16V	Ĺ	C414	1		1	DD16101010		100pF		50V
L301	1	1	1	LS35025010	M.P.X. Coil, LPF.		1	C415	1		1					35V
Q301	1	1	1	HT308281D0	-		1	C416	1		1	EE22503510	Electrolytic Cap.	, 2.2µF	20%	35V
Q302		1	1	HC10020010	IC, HA1196			C417	1	1	1	DF15152010		0015μF	±5%	50V
Q303		1	1	HT313441E0	•			C418	1	1	1	DF15152010	Film Cap., 0.0	015μF	±5%	50∨
Q304		1	1	HT313441E0	_	(5)	1	C419	1	1	1	DF15562010	. ,	056µF	±5%	50∨
R301	- 1	1	1	RA01030310	,	(B)	ĺ	C420	1		1	DF15562010		056μF	±5%	50∨
R302		1	1	RT05104140 RT05223140	Resistor, $100k\Omega \pm 5\%$ Resistor, $22k\Omega \pm 5\%$	%W %W		C421	1	1	1	EA10705090	Electrolytic Cap.	, 1 00μF	-16 %	50V
1303	1'	'	i .	11105225140	710313101, 22Rat ±3/0	/4 * *		C422	1	1	1	EA47601090	Electrolytic Con	475	+50 %	101
R304	1	1	1	RT05102140	Resistor, 1kΩ ±5%	14W		J401	1'	'	'	LA47001030	Electrolytic Cap.,	, 4/μΓ	-10 70	100
R305		1	1	RT05104140	Resistor, $100k\Omega \pm 5\%$	1/4W		1 7	38	38	38	YP10001130	Plug			
R306		1	1	RT05824140	Resistor, 820k Ω ±5%	14W	1	J438			-		=3			
R307	1	1	1	RT05473140	Resistor, 47k Ω ±5%	14W	1	L401	1	1	1	LC11540020	Choke Coil,	150µl	⊣	ĺ
R309	4	1	1	RT05154140	Resistor, $150k\Omega \pm 5\%$	14W			Ì					-		- 1
R310	1	1	1	RT05223140	Resistor, $22k\Omega \pm 5\%$	%W							P400 PHONO A			ı
R311		1	1	RT05272140 RT05101140	Resistor, $2.7k\Omega \pm 5\%$ Resistor, $100\Omega \pm 5\%$	1/ W			١.	١.	١.,		& SELECTOR E	JOARD		- 1
R312		1	1	RT05303140	Resistor, $100\Omega \pm 5\%$ Resistor, $30k\Omega \pm 5\%$	%W %W		P400	1	1	1	YK22050210				-
R314		1	1	RT05303140	Resistor, $30k\Omega \pm 5\%$	14W		ŀ	1	1	1	ZZ22050210	P.W. Board Assen	ibly		ı
''''	'	լ՝	•		20,0	,,,,,,	1	Q401	1	1	1	HT316811B0	Transistor, 2	2001001	/DL)	
R315	1	1	1	RT05473140	Resistor, $47k\Omega \pm 5\%$	1/4W		Q402			1	HT316811B0		2SC1681 2SC1681		
R316	١.	1	1	RT05473140	Resistor, $47k\Omega \pm 5\%$	14W	1	Q403		1	i	HT316812A0	Transistor, 2	2SC1681		31)
R317		1	1	RA05040080	Trimming Resistor, $500k\Omega$	(B)		Q404		1	1	HT316812A0	Transistor, 2	SC1681	- ,	
R318		1	1	RT05473140	Resistor, $47k\Omega \pm 5\%$	¼W	l	Q405	1	1	1	HT316811B0		2SC1681		.
R319		1	1	RT05273140	Resistor, $27k\Omega \pm 5\%$	1/4W	l l	Q406		1	1	HT316811B0		SC1681		İ
R320		1	1	RT05273140	Resistor, $27k\Omega \pm 5\%$	1/W	ı	R401		1	1	RT05913140	Resistor,	91kΩ :	±5%	¼W
R321		1	1	RT05332140 RT05332140	Resistor, $3.3k\Omega \pm 5\%$ Resistor, $3.3k\Omega \pm 5\%$	%W %W	1	R402		1	1	RT05913140	Resistor,	91kΩ		1/4W
R322 R323		1	1	RT05332140	Resistor, $3.3k\Omega \pm 5\%$	14W		R403		1	1	RT05471140	Resistor,	470Ω		1/4W
R324		1	1	RT05332140	Resistor, $3.3k\Omega \pm 5\%$	1/4W	ſ	R404	'	1	1	RT05471140	Resistor,	470Ω	±5%	14W
1.02	1	Ι'.	'		. ,			R405	1	1	1	RT05394140	Resistor, 3	390kΩ :	- 5%	14W
R325	1	1	1	RT05243140	Resistor, 24kΩ ±5%	14W		R406		1	1	RT05394140		390kΩ :		1/4W
R326		1	1	RT05243140	Resistor, $24k\Omega \pm 5\%$	14W		R407		i	1	RT05223140	Resistor,	22kΩ :		1/4W
R327	1	1	1	RT05394140	Resistor, $390k\Omega \pm 5\%$	14W	Ī	R408		1	1	RT05223140	Resistor,	22kΩ		1/4W
R328		1	1	RT05394140	Resistor, $390k\Omega \pm 5\%$	14W		R409		1	1	RT05681140		6 80Ω		14W
R329	- 1	1	1	RT05105140	Resistor, $1M\Omega \pm 5\%$	1/4W	Ì	R410	1	1	1	RT05681140		680Ω		1/4W
R330		1	1	RT05105140	Resistor, $1M\Omega \pm 5\%$	1/4W			1	1	1	RT05104140		00kΩ ±		14W
R331	1	1	1	RT05391140	Resistor, $390\Omega \pm 5\%$	1/4W		R412	1	1	1	RT05104140	Resistor, 1	00kΩ ±	₋ 5%	14W
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R413	1	1	1	RT05303140	Resistor, 30kΩ ±5% ¼W				
	1	il	il	RT05303140	Resistor, 30kΩ ±5% ¼W				
1 1	1	1	1	RT05562140	Resistor, $5.6k\Omega \pm 5\% \text{ ¼W}$				
	1	1	1	RT05562140	Resistor, $5.6k\Omega \pm 5\% \text{ ¼W}$				
R417	1	1	1	RT05182140	Resistor, $1.8k\Omega \pm 5\% $				
R418	1	1	1	RT05182140	Resistor, $1.8k\Omega \pm 5\% \text{ WW}$				
R419	1	1	1	RT05472140	Resistor, $4.7k\Omega \pm 5\%$ %W				
	1	1	1	RT05472140	Resistor, $4.7k\Omega \pm 5\%$ ½W				
	1	1	1	RT05224140	Resistor, 220k Ω ±5% ¼W Resistor, 220k Ω ±5% ¼W				
R422	1	1	1	RT05224140	nesistor, 220K32 ±570 7444				
R423	1	1	1	RT05473140	Resistor, $47k\Omega \pm 5\% $				
R424	1	1	1	RT05473140	Resistor, $47k\Omega \pm 5\%$ %W				
R425	1	1	1	RT05152140	Resistor, $1.5k\Omega \pm 5\% \text{ WW}$				
R426	1	1	1	RT05152140	Resistor, $1.5k\Omega \pm 5\%$ %W				
	1	1	1	RT05564140	Resistor, $560k\Omega \pm 5\%$ %W				
R428		1	1	RT05564140	Resistor, $560k\Omega \pm 5\% \text{ ¼W}$ Resistor, $100\Omega \pm 5\% \text{ ¼W}$				
R429	1	1	1	RT05101140 GF05330120	Resistor, $100\Omega \pm 5\%$ ¼W Resistor, $33\Omega \pm 5\%$ ½W				
R430	1 1	1	1	SR10050130	Rotary Switch, Selector				
S401 C701	1	1	1	EE22505010	Electrolytic Cap., 2.2µF ±20% 50V				
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C702	1	1	1	EE22505010	Electrolytic Cap., 2.2µF ±20% 50V				
C703	1	1	1	EE47601640	Electrolytic Cap., 47μF ±20% 16V				
C704	1	1	1	EE47601640	Electrolytic Cap., $47\mu\text{F} \pm 20\%$ 16V				
C705	1	1	1	EA47605090	Electrolytic Cap., 47μF ±18% 50V Electrolytic Cap., 47μF ±18% 50V				
C706	1	1	1	EA47605090 DD16201010	Ceramic Cap., 47µ1 -10% 50V				
C707	1	1	1	DD16201010	Ceramic Cap., 200pF ±10% 25V				
C709	1	1	i	DD10030500	Ceramic Cap., 3pF ±0.25pF 500V				
C710	1	1	1	DD10030500	Ceramic Cap., 3pF ±0.25pF 500V				
C711	1	1	1	DK 16101500	Ceramic Cap., 100pF ±10% 500V				
0740				DK16101500	Ceramic Cap., 100pF ±10% 500V				
C712	1	1	1	DK16101500	Ceramic Cap., 100pF ±10% 500V				
C713	1	1	i	DK16101500	Ceramic Cap., 100pF ±10% 500V				
C715	1	1	1	DF17104520	Film Cap., 0.1µF ±20% 200V				
C716	1	1	1	DF17104520	Film Cap., 0.1µF ±20% 200V				
C717	1	1	1	EA10603590	Electrolytic Cap., 10µF ± 68 % 35V				
C718	1	1	1	EA22703590	Electrolytic Cap., 220µF ± 18 % 35V				
C719	1	1	1	EA10701090	Electrolytic Cap., 100µF ± 18 % 10V				
C720	1	1	1	EA47706310	Electrolytic Cap., 470μF ±18% 63V Electrolytic Cap., 100μF ±18% 63V				
C721	1	1	1	EA10706310	Lieutionytic Cap., 100με -10 % 63V				
C722	1	1	1	EA33605090	Electrolytic Cap., 33μF ±18% 50V				
C723		i	1	EA10701690	Electrolytic Cap., 100µF ± 18% 16V				
C724		1	1	EA33505090					
C725		1	1	EA10801690	Electrolytic Cap., 1000µF ±18% 16V				
C726		1	1	DK 18103510	Ceramic Cap., 0.01μF 500V				
C727	1	1	1		Film Cap., 0.047µF ±20% 50V				
F701	1	1	ا ۾ ا	FS10350010	Fuse, 3.5A 250V (UL) Fuse, 3.5A (SEMKO)				
F701			1	FS10350800 FS10350010	Fuse, 3.5A (SEMKO) Fuse, 3.5A 250V (UL)				
F702		1	1	FS10350010	Fuse, 3.5A 250V (OL)				
',52									
F703	1	1		FS10100080	Fuse, MGC 1A 30mm				
F703			1	FS10100800	Fuse, 1A (SEMKO)				
F704	1	1	ایرا	FS10200060	Fuse, MGA 2A 30mm Fuse, 2A (SEMKO)				
F704			1	FS10200800	Fuse, 2A (SEMKO)				
J701	23	23	23	YP10001130	Plug				
J723	23	23	دء	,,,,550,,150	· · · J 				
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J724 }	4	4	4	YP10001200	Plug						
J727 J728	11	11	11	YP10001130	Plug						
J739 }	8	8	8	YJ08000210	Jack						
J746 J747	1	1	1	YP10001130	Plug						
J748 L701 L702	1 1 1	1 1 1	1 1 1	LC22720010	Plug Choke Coil, 2.7μH Choke Coil, 2.7μH						
P700	1	1 1	1	YG22050010 ZZ22050010	P700 MAIN AMP. & POWER SUPPLY BOARD P.W. Board P.W. Board Assembly						
Q701 Q702 Q703 Q704 Q705 Q706 Q707 Q708 Q709 Q710	1	111111111	1 1 1 1 1 1 1 1	HT107502B0 HV00003120	Varistor, MV-13 Varistor, MV-13 Transistor, 2SC1885 (Q, R, S)						
Q711 Q712 Q713 Q714 Q715 Q716 Q717 Q718 Q719 Q720	1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	HD20001210 HD20001210 HD20001210 HT309452A0	Diode, 1S2473C (YE) Diode, 1S2473C (YE) Diode, 1S2473C (YE) Transistor, 2SC 945 (Q, R) Transistor, 2SA 733 (Q, R) Transistor, 2SA 733 (Q, R) Thermistor, 21D28						
Q721 Q722 Q723 Q724 Q725 Q726 Q727 Q728 Q729 Q730	1	1	1 1 1 1 1 1 1 1	HD20002210 HD20002210	Diode, 1S2472 (GR) Diode, 1S2472 (GR) Diode, 1S2472 (GR) Transistor, 2SC1509 (P, Q) Transistor, 2SC1509 (P, Q) Transistor, 2SA 777 (P, Q)						
Q731 Q732 Q733 Q734 Q735 Q736 Q737 Q738 Q739 Q740	1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1	HD20005010 HD20005010 HT405872B0 HT405872B0 HT206172B0 HT206172B0 HV00005080 HV00005080 HD30030090 HT309452B0	Diode, W06B Diode, W06B Transistor, 2SD 587 (R, Q) Transistor, 2SD 587 (R, Q) Transistor, 2SB 61 7 (R, Q) Transistor, 2SB 61 7 (R, Q) Varistor, STV-3₩ (Y) Varistor, STV-3₩ (Y) Zener, WZ-177 Transistor, 2SC 94-5 (P, Q)						

- (U) for U.S.A.(C) for Canada(N) for Europe

															• (N) for E	Europe
REF.		ĽĊ		PART NO.	DESCRIPT	DESCRIPTION			REF. DESIG		C.		PART NO.		DESCRIPTION		
OT41 Q742 Q743 Q744 Q745 Q746 Q747 Q748 Q749 Q750 R701 R702 R703 R704	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	HT309452B0 HD30024090 HT309452B0 HD20012030 HD20011030 HT318853B0 HT3109452A0 HD30025090 HD20005010 HT403302A0 RT05474140 RT05474140 RT05392140	Transistor, 2SC Zener, WZ-1 Transistor, 2SC Diode, DS-1 Diode, DS-1 Transistor, 2SC Zener, WZ-1 Diode, W06: Transistor, 2SC Zener, WZ-1 Diode, W06: Transistor, 470k3 Resistor, 470k3 Resistor, 3.9k3 Resistor, 3.9k3	945 (P, 120 945 (P, 328 31B 885 945 (Q, 50 8 330 (D, 2 ±5% 2 ±5% 2 ±5% 2 ±5%	Q) R) E) ¼W ¼W ¼W ¼W		R748 R749 R750 R751 R752 R753 R754 R755 R756 R757			1 1 1 1 1 1 1 1 1 1	PART NO. GF05101140 75061251P0 75061251P0 75061251P0 75061251P0 GF05121140 GF05121140 GF05121140 GW10472020 GW10472020 GW10472020 GW10472020 GW10472020	Resistor,	100\Omega ± 120\Omega ± 120\Omega ± 120\Omega ± 120\Omega ± 0.47\Omega ±1 0.47\Omega ±1 0.47\Omega ±1 0.47\Omega ±1 0.47\Omega ±1	0% 0%	1/4 W 1/4 W
R705 R706 R707 R708 R709 R710 R711 R712 R713 R714 R715 R716	1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1	RT05333140 RT05333140 RT05153140 RT05153140 RT05103140 RT05103140 RT05912140 RT05912140 RT05153140 RT05153140 RT05224140 RT05224140 RT05332140	Resistor, 33ks Resistor, 33ks Resistor, 15ks Resistor, 10ks Resistor, 10ks Resistor, 9.1ks Resistor, 9.1ks Resistor, 15ks Resistor, 15ks	2 ±5% 2 ±5% 2 ±5% 2 ±5% 2 ±5% 2 ±5% 2 ±5% 2 ±5% 2 ±5% 2 ±5% 2 ±5% 2 ±5% 2 ±5% 2 ±5% 2 ±5%	2W 2W 2W 2W 2W 2W 2W 2W 2W 2W 2W 2W 2W 2		R762 R763 R764 R765 R766 R767 R768 R769 R770 R771 R772 R773	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GJ05100020 RC10022120 RC10022120 GF05102140 GF05151140 RT05100140 RT05684140 RT05754140 GJ05331020 GJ05331020 GU05151120	Resistor, Resistor, Resistor, Resistor, Resistor, Resistor, Resistor, Resistor, Resistor, Resistor, Resistor,	10Ω ± 2.2Ω ±1 2.2Ω ±1 1kΩ ± 150Ω ± 10κΩ ± 680kΩ ± 750kΩ ± 330Ω ± 330Ω ± 150Ω ±	5% 0% 5% 5% 5% 5% 5% 5% 5%	2W ½W ½W ¼W ¼W ¼W ¼W ¼W 2W 2W ½W
R717 R718 R719 R720 R721 R722 R723 R724 R725 R726 R727 R728 R729 R730	1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1	RT05332140 GF05330140 GF05330140 RT05333140 RT05271140 RT05271140 RT05362140 RT05362140 RT05302140 RT05302140 GF05102140	Resistor, 33ks Resistor, 33ks Resistor, 33ks Resistor, 33ks Resistor, 33ks Resistor, 270s Resistor, 270s Resistor, 3.6ks Resistor, 3.6ks Resistor, 3.6ks Resistor, 3ks Resistor, 3ks Resistor, 3ks Resistor, 3ks Resistor, 3ks Resistor, 3ks Resistor, 3ks Resistor, 1ks Res	2 ±5% 2 ±5% 2 ±5% 2 ±5% 2 ±5% 2 ±5% 2 ±5% 2 ±5% 2 ±5% 2 ±5% 2 ±5% 2 ±5% 2 ±5% 2 ±5% 2 ±5% 2 ±5%	2W		R775 R776 R777 R778 R779 R780 R781 R782 R783	1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1	GU05151120 GF05220140 GS10101050 RT05152140 RT05392140 RT05392140 RT05303140 RT05223140 75061251P0 RA05020200 SP04020200	Resistor, Resistor, Resistor, Resistor, Resistor, Resistor, Resistor, JUMPER Trimming Pushswitch	$\begin{array}{ccc} 22\Omega & \pm \\ 100\Omega & \pm 1 \\ 1.5k\Omega & \pm \\ 1.5k\Omega & \pm \\ 3.9k\Omega & \pm \\ 30k\Omega & \pm \\ 22k\Omega & \pm \end{array}$ Resistor,	5% 5% 0% 5% 5% 5% 5% kΩ	½W ¼W 5W ¼W ¼W ¼W ¼W ¼W
R741	1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GF05122140 GF05122140 GF05272140 GF05272140 GF05111140 GF05111140 RA05020200 RA05020200 RA01010040 RA01010040 GF05131140 GF05131140		±5% ±5% ±5% 5kΩ 100Ω 100Ω	½W ½W ½W ½W (B) (B) (B) (B)	191									
R742 R743 R744 R745 R746 R747	1 1 1 1	1 1 1 1 1	1 1 1 1 1	GF05151140 GF05151140 GF05101140 GF05101140 GF05101140	Resistor, 150Ω Resistor, 150Ω Resistor, 100Ω Resistor, 100Ω Resistor, 100Ω	±5% ±5% ±5% ±5%	%W %W %W %W %W										

18. TECHNICAL SPECIFICATIONS

FOR U.S.A. M	ODEL	ONLY
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ABADI	ICICI	R SEC	KON
AMPL	. FIEI	n sec	

RATED POWER OUTPUT, MINIMUM CONTINUOUS AVERAGE POWER PER CHANNEL, BOTH CHANNELS DRIVEN
POWER BAND
TOTAL HARMONIC DISTORTION
LOAD IMPEDANCE 8 OHMS
RATED POWER OUTPUT MINIMUM CONTINUOUS AVERAGE POWER PER CHANNEL, BOTH CHANNELS DRIVEN 33W
POWER BAND
TOTAL HARMONIC DISTORTION
LOAD IMPEDANCE

I.M. Distortion (I.H.F. method, 60 Hz and 7 kHz mixed 4:1 at rated power output)
at 8 ohm load impedance
Sensitivity (at MAIN IN)
(at 1 Watt output, 20 Hz to 20 kHz)±0.5 dE
PREAMPLIFIER SECTION: Phono
Input Overload at 1 kHz
(Dynamic Range is the ratio of input overload to
equivalent input noise)
Signal-to-Noise Ratio (at rated output and 7.75 mV input)
High Level (Aux and Tape) Input Sensitivity
Input Impedance
Frequency Response (includes power amp) 15 Hz to 60 kHz ±1.5 dB
Signal-to-Noise Ratio
(ref. to rated output and 775 mV input) 90 dB Output Levels
Tape Out (ref. 7.75 mV at Phono inputs)
disconnected) 4.2 V
Output Impedance Tape-Out
Pre-Out 900 ohms
FM TUNER SECTION: Sensitivity
IHF Usable 10.8 dBf (1.9 μV) IHF 50 dB Quieting (Mono) 16.1 dBf (3.2 μV) (Stereo) 37.3 dBf (40 μV)
Quieting Slope (Mono)
RF Input for 30 dB Quieting 9.3 dBf ($1.6 \mu V$) Quieting at:
20 dBf (5.5 μV)
25 dBf(10 μV)
65 dBf (1000 μV)
Quieting Slope (Stereo) Quieting at:
Quieting at: 30 dBf (17 μV)
40 dBf (55 uV) 53 dB

50 dBf (173 µV)	5 dE
100 Hz	.15%
100 Hz	0.3%
Distortion (Mono and Stereo) at 50 dB Quieting, 1000 Hz Hum and Noise	
at 65 dBf (1000 µV) Mono	3 dB
30 Hz to 15 kHz Mono+0.2 dB, -1. Stereo±1.	5 AR
Capture Ratio at 65 dBf (1000 μ V)	0 dB 0 dB 0 dB
Image Response Rejection 6 I.F. Rejection (Balanced) 9 A.M. Suppression 5	0 dB 0 dB
Stereo Separation 100 Hz	0 dB 5 dB
10 kHz	0 dR
AM TUNER SECTION: IHF Usable Sensitivity	5 μV
Signal-to-Noise Ratio	dB 3 dB
Spurious Response Rejection	Ab (
GENERAL: Power Requirements) Hz
operating	2 W 27 W
Panel Width	hesi
Weight:	-

FOR EUROPEAN MODEL ONLY **AUDIO SECTION** | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | Code | I.M. DISTORTION AT RATED POWER OUTPUT Spurious Response Rejection, 98 MHz 80 dB AM Suppression, 98 MHz 50 dB Signal-to-Noise Ratio at 98 MHz Un-weighted Magazian Damping Factor, SP Output ### 45 August 45 Frequency Response #2 dB ... 18 Hz ~ 30 kHz #1.5 dB ... 10 Hz ~ 40 kHz #1.5 dB ... 10 Hz ~ 40 kHz Phono Weight Mono 68 dB Stereo 62 dB Pilot Signal & Subcarrier Rejection Weight Main In Signal-to-Noise Ratio, 1 kHz Phono..... 50 dB 38 kHz Aux 50 dB Total Harmonic Distortion at 98 MHz Stereo 0.4% Frequency Response Main In Input Impedance, 1 kHz 30 Hz ~ 15 kHz +0.2 dB, −2.0 dB Input Impedance, 1 kHz 47k ohms Phono 47k ohms Aux 20k ohms Main In 33k ohms Phono Equivalent Input Noise 1.7 µV Phono Dynamic Range 92 dB Phono Input Capacitance 100 pF Separation Separation $250\sim6.3~\text{kHz}$ 40~dB $6.3~\text{kHz}\sim12.5~\text{kHz}$ 35~dB Channel Balance 0.5~dB Output Voltage, 1 kHz 565~mV Output Impedance, 1 kHz 2.3k ohms Acceptable Load Impedance, 1 kHz 4.7k ohms Antenna Terminals Antenna Terminals Channel Balance Balanced 300 ohms Unbalanced 75 ohms Phono Aux Main In AM TUNER SECTION: Interchannel Crosstalk 1 kHz ... Phono 250 Hz ~ 10 kHz 30 dB 1 kHz 43 dB 250 Hz ~ 10 kHz 30 dB 1 kHz 43 dB 250 Hz ~ 10 kHz 30 dB Aux3 dB 3 dB Spurious Response Rejection, 1 MHz 60 dB Signal-to-Noise Ratio, 1 MHz 52 dB Frequency Response 1 MHz, ±3 dB 40 Hz ~ 2.3 kHz Total Harmonic Distortion, 1 MHz 0.5% Tape Main In Intersource Crosstalk, Worst Point GENERAL: Output Voltage, 1 kHz (E and N versions are featuring an external voltage Tape Out 0.18 V selector for use on 110/120/240V. Other versions can be converted by a qualified technician to operate on 110/120/240V.) Tape Out 50 ohms Power Consumption at Rated Output, 600 ohms Pre Out Overload Margin, 1 kHz Phono 33 dB **A**ux 50 dB Power Consumption Diodes 30 Field Effect Transistors 1 Dimensions FM TUNER SECTION: 87.5 ~ 108 MHz Panel Height 137 mm (5-25/6季 inches) Depth 365 mm (14-3/3 inches) Mono S/N 26 dB 1.6 μV Stereo S/N 46 dB 47 μV Alternate Channel Selectivity 98 MHz, ±300 kHz 50 dB Weight



marantz

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